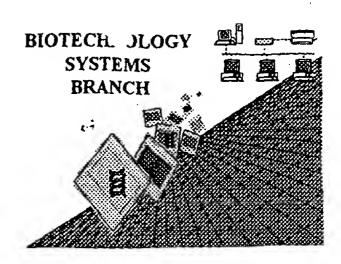
RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/759,508A
Source:	OIRE
Date Processed by STIC:	5/30/2001

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

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Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

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OIPE

RAW SEQUENCE LISTING

DATE: 05/30/2001 PATENT APPLICATION: US/09/759,508A TIME: 11:49:00

Input Set: A:\00786.381002.SEQLIST.TXT Output Set: C:\CRF3\05302001\I759508A.raw

Does Not Comply Corrected Diskette Needed

Due to size of sequeree, only errored pages shown.

- 4 <110> APPLICANT: Fishman, Mark C.
- 6 <120> TITLE OF INVENTION: Methods for Diagnosing and Treating
- Heart Disease
- 9 <130> FILE REFERENCE: 00786/381002
- 11 <140> CURRENT APPLICATION NUMBER: US 09/759,508A
- 12 <141> CURRENT FILING DATE: 2001-01-12
- 14 <150> PRIOR APPLICATION NUMBER: US 60/175,787
- 15 <151> PRIOR FILING DATE: 2000-01-12
- 17 <160> NUMBER OF SEQ ID NOS: 11
- 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

1394 <210> SEQ ID NO: 2 1395 <211> LENGTH: 26926

1396 <212> TYPE: PRT

1397 <213> ORGANISM: Homo sapiens

1399 <400> SEQUENCE: 2

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1402 Val Leu Glu Gly Ser Thr Ala Thr Phe Glu Ala His Ile Ser Gly Phe 25

1404 Pro Val Pro Glu Val Ser Trp Phe Arg Asp Gly Gln Val Ile Ser Thr 1405 35 40

1406 Ser Thr Leu Pro Gly Val Gln Ile Ser Phe Ser Asp Gly Arg Ala Lys

1407 55 1408 Leu Thr Ile Pro Ala Val Thr Lys Ala Asn Ser Gly Arg Tyr Ser Leu

1409 65 70 75 1410 Lys Ala Thr Asn Gly Ser Gly Gln Ala Thr Ser Thr Ala Glu Leu Leu

1412 Val Lys Ala Glu Thr Ala Pro Pro Asn Phe Val Gln Arg Leu Gln Ser 100 105

1414 Met Thr Val Arg Gln Gly Ser Gln Val Arg Leu Gln Val Arg Val Thr

1415 115 120 1416 Gly Ile Pro Thr Pro Val Val Lys Phe Tyr Arg Asp Gly Ala Glu Ile

130 135

1418 Gln Ser Ser Leu Asp Phe Gln Ile Ser Gln Glu Gly Asp Leu Tyr Ser

1419 145 150

1420 Leu Leu Ile Ala Glu Ala Tyr Pro Glu Asp Ser Gly Thr Tyr Ser Val 165 170

1422 Asn Ala Thr Asn Ser Val Gly Arg Ala Thr Ser Thr Ala Glu Leu Leu

180 185 1424 Val Gln Gly Glu Glu Val Pro Ala Lys Lys Thr Lys Thr Ile Val

195 200

1426 Ser Thr Ala Gln Ile Ser Glu Ser Arg Gln Thr Arg Ile Glu Lys Lys 1427 210 215



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file://C:\Crf3\Outhold\VsrI759508A.htm

leave a

space between

ending amora and
runter AND beginning

fresh amora

5/30/01

E>	2653				100	20				1002	25				100	30	
	2654																Tle
E>																110	+ •
	2656	Ala	Tur	Val	Ser	Glv	I.vs	Pro	pro	Pro	Thr	Val	Thr	Trn	Aen	Mat	Aen
E>															VOII	Mec	ASII
	2658														λΙο	T1.	Cor
F>																	
E,/																	10080
₽>	2660																
E>																	
-	2662									-		_	_	_			11e
E>																	
	2664		_			_			_			_				Leu	Ala
E>																_	
-	2666														Ser	Pro	GLu
E>																	
	2668														_	_	
E>																	10160
	2670		_	_	_		_					_				_	
E>																	-
-	2672										_			-			Arg
E>																	_
-	2674								_		_					Thr	Ser
E>														1020		Б	<i>a</i> 1
E .	2676														Arg	Pro	GIU
E>	20//		TUZ.	LU				TUZ.	LD				TUZZ	20			
	2670														T	mh	П
F>		Asp	Leu	Glu	Val	Lys	Glu	Val	Thr	Lys	Asn	Thr	Val	Thr			Trp
E>	2679	Asp 1022	Leu 25	Glu	Val	Lys	Glu 1023	Val 30	Thr	Lys	Asn	Thr 1023	Val 35	Thr			10240
	2679 2680	Asp 1022 Asn	Leu 25 Pro	Glu Pro	Val Lys	Lys Tyr	Glu 1023 Asp	Val 30 Gly	Thr Gly	Lys Ser	Asn Glu	Thr 1023 Ile	Val 85 Ile	Thr Asn	Tyr	Val	10240 Leu
E>	2679 2680 2681	Asp 1022 Asn	Leu 25 Pro	Glu Pro	Val Lys	Lys Tyr 1024	Glu 102 3 Asp 15	Val 30 Gly	Thr	Lys	Asn Glu 1025	Thr 1023 Ile 50	Val 85 Ile	Thr Asn	Tyr	Val 1025	10240 Leu 55
E>	2679 2680 2681 2682	Asp 1022 Asn Glu	Leu 25 Pro	Glu Pro Arg	Val Lys Leu	Tyr 1024 Ile	Glu 1023 Asp 15 Gly	Val 30 Gly Thr	Thr Gly Glu	Lys Ser Lys	Asn Glu 1025 Phe	Thr 1023 Ile 50 His	Val 85 Ile Lys	Thr Asn Val	Tyr Thr	Val 1025 Asn	10240 Leu 55
	2679 2680 2681 2682 2683	Asp 1022 Asn Glu	Leu 25 Pro Ser	Glu Pro Arg	Val Lys Leu 1026	Tyr 1024 Ile	Glu 1023 Asp 15 Gly	Val 30 Gly Thr	Thr Gly Glu	Lys Ser Lys 1026	Asn Glu 1025 Phe	Thr 1023 Ile 50 His	Val 35 Ile Lys	Thr Asn Val	Tyr Thr 1027	Val 1025 Asn 70	10240 Leu 55 Asp
E>	2679 2680 2681 2682 2683 2684	Asp 1022 Asn Glu Asn	Leu 25 Pro Ser Leu	Glu Pro Arg Leu	Val Lys Leu 1026 Ser	Tyr 1024 Ile 50 Arg	Glu 1023 Asp 15 Gly Lys	Val 30 Gly Thr	Thr Gly Glu Thr	Lys Ser Lys 1026 Val	Asn Glu 1025 Phe 55 Lys	Thr 1023 Ile 50 His	Val 35 Ile Lys Leu	Thr Asn Val Lys	Tyr Thr 1027 Glu	Val 1025 Asn 70	10240 Leu 55 Asp
E>	2679 2680 2681 2682 2683 2684 2685	Asp 1022 Asn Glu Asn	Leu 25 Pro Ser Leu	Pro Arg Leu 102	Val Lys Leu 1026 Ser	Tyr 1024 Ile 50 Arg	Glu 1023 Asp 15 Gly Lys	Val 30 Gly Thr Tyr	Thr Gly Glu Thr 1028	Lys Ser Lys 1026 Val	Asn Glu 1025 Phe 55 Lys	Thr 1023 Ile 50 His	Val 35 Ile Lys Leu	Thr Asn Val Lys 1028	Tyr Thr 1027 Glu 35	Val 1025 Asn 70 Gly	10240 Leu 55 Asp
E> E>	2679 2680 2681 2682 2683 2684 2685 2686	Asp 1022 Asn Glu Asn Thr	Leu 25 Pro Ser Leu Tyr	Pro Arg Leu 102	Val Lys Leu 1026 Ser 75	Tyr 1024 Ile 50 Arg	Glu 1023 Asp 15 Gly Lys Val	Val 30 Gly Thr Tyr Ser	Thr Gly Glu Thr 1028 Ala	Lys Ser Lys 1026 Val Val	Asn Glu 1025 Phe 55 Lys Asn	Thr 1023 Ile 50 His Gly	Val 35 Ile Lys Leu Val	Thr Asn Val Lys 1028 Gly	Tyr Thr 1027 Glu 35	Val 1025 Asn 70 Gly	10240 Leu 55 Asp
E>	2679 2680 2681 2682 2683 2684 2685 2686 2687	Asp 1022 Asn Glu Asn Thr	Leu 25 Pro Ser Leu Tyr 1029	Glu Pro Arg Leu 102: Glu 90	Val Lys Leu 1026 Ser 75	Tyr 1024 Ile 50 Arg	Glu 1023 Asp 15 Gly Lys Val	Val 30 Gly Thr Tyr Ser 1029	Thr Gly Glu Thr 1028 Ala	Lys Ser Lys 1026 Val Val	Asn Glu 1025 Phe 55 Lys Asn	Thr 1023 Ile 50 His Gly Ile	Val Ile Lys Leu Val 1030	Thr Asn Val Lys 1028 Gly	Tyr Thr 1027 Glu 35 Gln	Val 1025 Asn 70 Gly Gly	10240 Leu 55 Asp Asp
E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688	Asp 1022 Asn Glu Asn Thr	Leu 25 Pro Ser Leu Tyr 1029 Ser	Pro Arg Leu 102: Glu 90 Phe	Val Lys Leu 1026 Ser 75 Tyr	Tyr 1024 Ile 50 Arg Arg	Glu 1023 Asp 15 Gly Lys Val Lys	Val 30 Gly Thr Tyr Ser 1029 Pro	Thr Gly Glu Thr 1028 Ala 5	Lys Ser Lys 1026 Val Val Thr	Asn Glu 1025 Phe 55 Lys Asn Cys	Thr 1023 Ile 50 His Gly Ile Lys	Val Ile Lys Leu Val 1030 Asp	Thr Asn Val Lys 1028 Gly O Glu	Tyr Thr 1027 Glu 55 Gln Leu	Val 1025 Asn 70 Gly Gly	10240 Leu 55 Asp Asp Lys Pro
E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689	Asp 1022 Asn Glu Asn Thr Pro 1030	Leu 25 Pro Ser Leu Tyr 1029 Ser	Pro Arg Leu 102: Glu 90 Phe	Val Lys Leu 1026 Ser 75 Tyr	Tyr 1024 Ile 50 Arg Thr	Glu 1023 Asp 15 Gly Lys Val Lys 1031	Val 30 Gly Thr Tyr Ser 1029 Pro	Thr Gly Glu Thr 1028 Ala 5	Lys Ser Lys 1026 Val Val Thr	Asn Glu 1029 Phe 55 Lys Asn Cys	Thr 1023 Ile 50 His Gly Ile Lys 1031	Val Ile Lys Leu Val 1030 Asp	Thr Asn Val Lys 1028 Gly O Glu	Tyr Thr 1027 Glu 55 Gln Leu	Val 1025 Asn 70 Gly Gly	10240 Leu 55 Asp Asp Lys Pro 10320
E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro	Leu 25 Pro Ser Leu Tyr 1029 Ser 5	Glu Pro Arg Leu 102: Glu 90 Phe Leu	Val Lys Leu 1026 Ser 75 Tyr Cys	Tyr 1024 Ile 50 Arg Thr	Glu 1023 Asp 15 Gly Lys Val Lys 1033 Asp	Val 30 Gly Thr Tyr Ser 1029 Pro 10	Thr Gly Glu Thr 1028 Ala 5 Ile Arg	Lys Ser Lys 1026 Val Val Thr	Asn Glu 1025 Phe 55 Lys Asn Cys Lys	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu	Val Ile Lys Leu Val 1030 Asp	Thr Asn Val Lys 1028 Gly O Glu Ile	Tyr Thr 1027 Glu 55 Gln Leu Arg	Val 1025 Asn 70 Gly Gly Ala Val	10240 Leu 55 Asp Asp Lys Pro 10320 Gly
E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro	Leu 25 Pro Ser Leu Tyr 1029 Ser 5	Glu Pro Arg Leu 102: Glu 90 Phe Leu	Val Lys Leu 1026 Ser 75 Tyr Cys	Tyr 1024 Ile 50 Arg Thr Leu 1032	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp	Val 30 Gly Thr Tyr Ser 1029 Pro 10	Thr Gly Glu Thr 1028 Ala 5 Ile Arg	Lys Ser Lys 1026 Val Val Thr	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu	Val Ile Lys Leu Val 1030 Asp	Thr Asn Val Lys 1028 Gly O Glu Ile	Tyr Thr 1027 Glu 35 Gln Leu Arg	Val 1025 Asn 70 Gly Gly Ala Val 1033	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55
E> E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr	Glu Pro Arg Leu 102: Glu 90 Phe Leu Phe	Val Lys Leu 1026 Ser 75 Tyr Cys His	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp 25 Thr	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg	Lys Ser Lys 1026 Val Val Thr Asp	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly	Val Ile Lys Leu Val 1030 Asp Thr	Thr Asn Val Lys 1028 Gly O Glu Ile Pro	Tyr Thr 1027 Glu S5 Gln Leu Arg	Val 1025 Asn 70 Gly Ala Val 1033 Pro	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55
E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr	Glu Pro Arg Leu 102: Glu 90 Phe Leu Phe	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034	Tyr 1024 Ile 50 Arg Thr Leu 1032	Glu 1023 Asp 15 Gly Lys Val Lys 1033 Asp 25 Thr	Val 30 Gly Thr Tyr Ser 1029 Pro 100 Phe	Thr Gly Glu Thr 1028 Ala Ile Arg Arg	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly	Val Ile Lys Leu Val 1030 Asp Thr	Thr Asn Val Lys 1028 Gly Glu Ile Pro	Tyr Thr 1027 Glu 35 Gln Leu Arg Lys 1035	Val 1025 Asn 70 Gly Ala Val 1033 Pro	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys
E> E> E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser	Glu Pro Arg Leu 102' Glu Phe Leu Phe Trp	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp 25 Thr	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly Glu	Thr Gly Glu Thr 1028 Ala S Ile Arg Arg Ala	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser Val	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly Leu	Val Ile Lys Leu Val 1030 Asp Thr Lys	Thr Asn Val Lys 1028 Gly O Glu Ile Pro Asp	Tyr Thr 1027 Glu 5 Gln Leu Arg Lys 1035 Asp	Val 1025 Asn 70 Gly Ala Val 1033 Pro	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys
E> E> E> E>	2679 2680 2681 2682 2683 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser	Glu Pro Arg Leu 102: Glu Phe Leu Phe Trp 103:	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp 25 Thr	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly Glu	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser 15 Val	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly Leu	Val Ile Lys Leu Val 1030 Asp Thr Lys	Thr Asn Val Lys 1028 Gly O Glu Ile Pro Asp 1036	Tyr Thr 1027 Glu 55 Gln Leu Arg Lys 1035 Asp	Val 1025 Asn 70 Gly Ala Val 1033 Pro Arg	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr
E> E> E> E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2689 2690 2691 2693 2693 2695 2696	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser	Glu Pro Arg Leu 102: Glu Phe Leu Phe Trp 103: Lys	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe 55	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp Thr Asp	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly Glu Ala	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036 Thr	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp 0 Leu	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser Val Ala	Thr 1023 Ile 50 His Gly Ile Leu Gly Leu Leu	Val Ile Lys Leu Val 1030 Asp Thr Lys Glu	Thr Asn Val Lys 1028 Gly O Glu Ile Pro Asp 1036 Lys	Tyr Thr 1027 Glu 55 Gln Leu Arg Lys 1035 Asp	Val 1025 Asn 70 Gly Ala Val 1033 Pro Arg	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr
E> E> E> E> E>	2679 2680 2681 2682 2683 2684 2685 2686 2689 2690 2691 2692 2693 2694 2695 2697	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val His	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser Ile 1037	Glu Pro Arg Leu 102: Glu Phe Leu Phe Trp 103: Lys 70	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe 55	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp Thr Asp Pro	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly Glu Ala 1037	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036 Thr	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp Leu	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser 15 Val Ala	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly Leu Leu	Val Ile Lys Leu Val 1030 Asp Thr Lys Glu 1038	Thr Asn Val Lys 1028 Gly O Glu Ile Pro Asp 1036 Lys	Tyr Thr 1027 Glu 55 Gln Leu Arg Lys 1035 Asp 55 Ile	Val 1025 Asn 70 Gly Ala Val 1033 Pro Arg	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr Ala
E> E> E> E> E> E>	2679 2680 2681 2682 2683 2685 2686 2686 2689 2690 2691 2693 2694 2695 2697 2698	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val His	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser Ile 1037 Arg	Glu Pro Arg Leu 102' Glu 90 Phe Leu Phe Trp 103' Lys 70 Ser	Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe 55 Thr	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys Thr Ser	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp Thr Asp Pro Gly	Val 30 Gly Thr Tyr Ser 1029 Pro 10 Phe Gly Glu Ala 1037 Lys	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036 Thr	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp Cys	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser 15 Val Ala Val	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly Leu Val	Val Ile Lys Leu Val 1030 Asp Thr Lys Glu Glu 1038 Val	Thr Asn Val Lys 1028 Gly O Glu Ile Pro Asp 1036 Lys Glu Glu	Tyr Thr 1027 Glu 5 Gln Leu Arg Lys 1035 Asp 55 Ile Asn	Val 1025 Asn 70 Gly Ala Val 1033 Pro Arg Lys	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr Ala Thr
E> E> E> E> E> E>	2679 2681 2681 2683 2683 2685 2686 2687 2689 2691 2693 2693 2693 2694 2695 2697 2698 2699	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val His Lys 1038	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser Ile 1037 Arg	Glu Pro Arg Leu 102: Glu Phe Leu Phe Trp 103: Lys 70 Ser	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe 55 Thr	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys Thr	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp Thr Asp Pro Gly 1039	Val 30 Gly Thr Tyr Ser 1029 Pro 100 Phe Gly Glu Ala 1037 Lys	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036 Thr 75 Tyr	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp Cys	Asn Glu 1025 Phe 55 Lys Asn Cys Lys 1033 Ser 15 Val Ala Val	Thr 1023 Ile 50 His Gly Ile Lys 1031 Leu Gly Leu Val 1039	Val Ile Lys Leu Val 1030 Asp 5 Thr Lys Glu Glu 1038 Val	Thr Asn Val Lys Gly O Glu Ile Pro Asp 1036 Lys Glu Glu	Tyr Thr 1027 Glu 55 Gln Leu Arg Lys 1035 Asp 55 Ile Asn	Val 1025 Asn 70 Gly Ala Val 1033 Pro 50 Arg Lys	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr Ala Thr 10400
E> E> E> E> E> E>	2679 2681 2681 2683 2683 2685 2686 2689 2689 2691 2693 2693 2693 2693 2693 2699 2699 2699	Asp 1022 Asn Glu Asn Thr Pro 1030 Pro Glu Val His Lys 1038 Gly	Leu 25 Pro Ser Leu Tyr 1029 Ser Thr Ala Ser Ile 1037 Arg 5 Ser	Glu Pro Arg Leu 102: Glu Phe Leu Phe Trp 103: Lys 70 Ser Arg	Val Lys Leu 1026 Ser 75 Tyr Cys His Ala 1034 Phe 55 Thr Asp	Tyr 1024 Ile 50 Arg Thr Leu 1032 Leu 10 Lys Thr Ser Gly	Glu 1023 Asp 15 Gly Lys Val Lys 1031 Asp 25 Thr Asp Pro Gly 1039 Phe	Val 30 Gly Thr Tyr Ser 1029 Pro Phe Gly Glu Ala 1037 Lys O Cys	Thr Gly Glu Thr 1028 Ala 5 Ile Arg Arg Ala 1036 Thr Tyr Gln	Lys Ser Lys 1026 Val Val Thr Asp Tyr 1034 Asp Cys Val	Asn Glu 1025 Phe 55 Lys Asn Cys 1033 Ser 15 Val Ala Val Asn	Thr 1023 Ile 50 His Gly Ile Leu So Gly Leu Val 1039 Val	Val Ile Lys Leu Val 1030 Asp 5 Thr Lys Glu Glu 1038 Val	Thr Asn Val Lys Gly O Glu Ile Pro Asp 1036 Lys Glu Glu	Tyr Thr 1027 Glu S5 Gln Leu Arg Lys 1035 Asp 55 Ile Asn His	Val 1025 Asn 70 Gly Ala Val 1033 Pro 50 Arg Lys	10240 Leu 55 Asp Asp Lys Pro 10320 Gly 55 Lys Thr Ala Thr 10400 Gly

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E>	2703														1043		
	2704													Ser	Lys	Ile	Thr
E>	2705													1044			
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															Val	Thr	Lys
E>	2715							_						1052			,
	2716													Gly	Glv	Lvs	Pro
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	2720																
E>	2721						-							_		1057	
	2722																
E>	2723						_	_		_			-				
	2724																Phe
E>	2725													1060			
	2726															Glu	Ala
E>																	- ,
			רמטד	LU				TOPI	.5				1062	20			
									l 5 Val				1062 Tro		Pro	Pro	Ara
	2728	Ile	Asp	Thr	Thr	Cys	Asn	Ser	Val	Asp	Leu	Thr	Trp	Gln			_
	2728 2729	Ile 1062	Asp 25	Thr	Thr	Cys	Asn 106 3	Ser 30	Val	Asp	Leu	Thr 1063	Trp	Gln			10640
E>	2728 2729 2730	Ile 1062 His	Asp 25 Asp	Thr Gly	Thr Gly	Cys Ser	Asn 1063 Lys	Ser 30 Ile	Val Leu	Asp Gly	Leu Tyr	Thr 1063 Ile	Trp 85 Val	Gln Glu	Tyr	Gln	10640 Lys
E>	2728 2729 2730 2731	Ile 1062 His	Asp 25 Asp	Thr	Thr Gly	Cys Ser 1064	Asn 1063 Lys 15	Ser 30 Ile	Val Leu	Asp Gly	Leu Tyr 1065	Thr 1063 Ile 0	Trp 85 Val	Gln Glu	Tyr	Gln 1065	10640 Lys 55
E>	2728 2729 2730 2731 2732	Ile 1062 His Val	Asp 25 Asp Gly	Thr Gly Asp	Thr Gly Glu	Cys Ser 1064 Glu	Asn 1063 Lys 15 Trp	Ser 80 Ile Arg	Val Leu Arg	Asp Gly Ala	Leu Tyr 1065 Asn	Thr 1063 Ile 50 His	Trp 85 Val	Gln Glu Pro	Tyr Glu	Gln 1065 Ser	10640 Lys 55
E>	2728 2729 2730 2731 2732 2733	Ile 1062 His Val	Asp 25 Asp Gly	Thr Gly Asp	Thr Gly Glu 1066	Cys Ser 1064 Glu 50	Asn 1063 Lys 15 Trp	Ser 30 Ile Arg	Val Leu Arg	Asp Gly Ala 1066	Tyr 1065 Asn	Thr 1063 Ile 50 His	Trp 55 Val Thr	Gln Glu Pro	Tyr Glu 1067	Gln 1065 Ser	10640 Lys 55 Cys
E> E>	2728 2729 2730 2731 2732 2733 2734	Ile 1062 His Val Pro	Asp 25 Asp Gly	Thr Gly Asp Thr	Thr Gly Glu 1066	Cys Ser 1064 Glu Glu Tyr	Asn 1063 Lys 15 Trp Lys	Ser 30 Ile Arg Val	Val Leu Arg Thr	Asp Gly Ala 1066 Gly	Tyr 1065 Asn 55 Leu	Thr 1063 Ile 50 His	Trp 5 Val Thr	Gln Glu Pro Gly	Tyr Glu 1067 Gln	Gln 1065 Ser	10640 Lys 55 Cys
E> E>	2728 2729 2730 2731 2732 2733 2734 2735	Ile 1062 His Val Pro	Asp 25 Asp Gly	Thr Gly Asp Thr 1067	Thr Gly Glu 1066 Lys '5	Cys Ser 1064 Glu Glu Tyr	Asn 1063 Lys 15 Trp Lys	Ser 30 Ile Arg Val	Val Leu Arg Thr 1068	Asp Gly Ala 1066 Gly	Tyr 1065 Asn 55 Leu	Thr 1063 Ile 50 His Arg	Trp 5 Val Thr	Gln Glu Pro Gly 1068	Tyr Glu 1067 Gln	Gln 1065 Ser 70 Thr	10640 Lys 55 Cys
E> E> E>	2728 2729 2730 2731 2732 2733 2734 2735 2736	Ile 1062 His Val Pro	Asp 25 Asp Gly Glu Phe	Thr Gly Asp Thr 1067 Arg	Thr Gly Glu 1066 Lys Val	Cys Ser 1064 Glu 50 Tyr Leu	Asn 1063 Lys 5 Trp Lys Ala	Ser 30 Ile Arg Val	Val Leu Arg Thr 1068 Asn	Asp Gly Ala 1066 Gly 80 Ala	Tyr 1065 Asn 55 Leu Ala	Thr 1063 Ile 50 His Arg	Trp 5 Val Thr Asp	Gln Glu Pro Gly 1068 Ser	Tyr Glu 1067 Gln	Gln 1065 Ser 70 Thr	10640 Lys 55 Cys
E> E> E>	2728 2729 2730 2731 2732 2733 2734 2735 2736 2737	Ile 1062 His Val Pro Lys	Asp Soly Gly Glu Phe	Thr Gly Asp Thr 1067 Arg	Gly Glu 1066 Lys Val	Cys Ser 1064 Glu 50 Tyr Leu	Asn 1063 Lys 15 Trp Lys Ala	Ser 30 Ile Arg Val Val	Val Leu Arg Thr 1068 Asn	Asp Gly Ala 1066 Gly 80 Ala	Tyr 1065 Asn 55 Leu Ala	Thr 1063 Ile 30 His Arg	Trp S5 Val Thr Asp Glu 1070	Gln Glu Pro Gly 1068 Ser	Tyr Glu 1067 Gln S5 Asp	Gln 1065 Ser 70 Thr	10640 Lys 55 Cys Tyr
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E> E> E>	2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739	Ile 1062 His Val Pro Lys His 1070	Asp Soly Gly Glu Phe 1069 Val	Thr Gly Asp Thr 1067 Arg Pro	Thr Gly Glu 1066 Lys Val Glu	Cys Ser 1064 Glu Tyr Leu Pro	Asn 1063 Lys 5 Trp Lys Ala Val 1071	Ser 30 Ile Arg Val Val Leu	Val Leu Arg Thr 1068 Asn Val	Asp Gly Ala 1066 Gly O Ala	Tyr 1065 Asn 55 Leu Ala Asp	Thr 1063 Ile 30 His Arg Gly Arg 1071	Trp 5 Val Thr Asp Glu 1070 Leu 5	Gln Glu Pro Gly 1068 Ser 0	Tyr Glu 1067 Gln S5 Asp Pro	Gln 1065 Ser 70 Thr Pro	10640 Lys 55 Cys Tyr Ala Glu 10720
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E> E> E> E> E>	2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742	Ile 1062 His Val Pro Lys His 1070 Leu Asp	Asp Solv Glu Phe 1069 Val Ile Thr	Thr Gly Asp Thr 1067 Arg O Pro Leu Leu	Thr Gly Glu 1066 Lys Val Glu Asp Arg	Cys Ser 1064 Glu Tyr Leu Pro Ala 1072 Leu	Asn 1063 Lys 5 Trp Lys Ala Val 1071 Asn 5 Ser	Ser 30 Ile Arg Val 1069 Leu 0 Met	Val Leu Arg Thr 1068 Asn Val Ala Ile	Asp Gly Ala 1066 Gly O Ala Lys Arg	Tyr 1065 Asn 55 Leu Ala Asp Glu 1073 Lys	Thr 1063 Ile 0 His Arg Gly Arg 1071 Gln Gly	Trp S5 Val Thr Asp Glu 1070 Leu 5 His	Gln Glu Pro Gly 1068 Ser Glu Ile Pro	Tyr Glu 1067 Gln S5 Asp Pro Lys Phe	Gln 1065 Ser O Thr Pro Val 1073 Pro	10640 Lys 55 Cys Tyr Ala Glu 10720 Gly
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E>	2993														1275		
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	3004	Lys	Lys	Asp	Gly	Thr	Leu	Leu	Lys	Pro	Ala	Glu	Gly	Ile	Lys	Met	Ala
E>	3005			1283	35				1284	10				1284	15		
	3006	Met	Gln	Arg	Asn	Leu	Cys	Thr	Leu	Glu	Leu	Phe	Ser	Val	Asn	Arg	Lys
E>	3007		1285	50				1285	55				1286	50			
	3008	Asp	Ser	Gly	Asp	Tyr	Thr	Ile	Thr	Ala	Glu	Asn	Ser	Ser	Gly	Ser	Lys
E>	3009	1286	65				1287	70				1287	75				12880
	3010	Ser	Ala	Thr	Ile	Lys	Leu	Lys	Val	Leu	Asp	Lys	Pro	Gly	Pro	Pro	Ala
E>	3011					1288	35				1289	90				1289	95
	3012	Ser	Val	Lys	Ile	Asn	Lys	Met	Tyr	Ser	Asp	Arg	Ala	Met	Leu	Ser	Trp
E>	3013			-	1290	00	_			1290)5	-			1291	.0	_
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E>	3023 3024	Arg Val	Cys Ser	Asp 1299 Trp	1298 Pro 95 Lys	Pro	Val Pro	Ile Ala	Ser 130 0 Asp	1298 Asn 00 Asp	Ile Gly	Thr Gly	Lys Ser	Asp 1300 Pro	1299 His)5	00 Met	Thr
E>	3023 3024 3025 3026 3027	Arg Val	Cys Ser 130	Asp 1299 Trp 10	1298 Pro 95 Lys	Pro	Val Pro	Ile Ala 1301	Ser 1300 Asp .5	1298 Asn 00 Asp	Ile Gly	Thr Gly	Lys Ser 1302	Asp 1300 Pro	1299 His)5 Ile	Met Thr	Thr Gly
E>	3023 3024 3025 3026 3027 3028	Arg Val Tyr	Cys Ser 1301 Leu	Asp 1299 Trp 10 Leu	1298 Pro 95 Lys Glu	Pro Pro Pro Lys	Val Pro Arg	Ile Ala 1301 Glu	Ser 1300 Asp .5 Thr	Asn OO Asp	Ile Gly Ala	Thr Gly Val	Lys Ser 1302 Asn	Asp 1300 Pro 20 Trp	1299 His)5 Ile	Met Thr Lys	Thr Gly Val
E>	3023 3024 3025 3026 3027 3028 3029	Arg Val Tyr 1302	Cys Ser 130 1 Leu 25	Asp 1299 Trp 10 Leu	1298 Pro 95 Lys Glu	Pro Pro Pro Lys	Val Pro Arg 1303	Ile Ala 1301 Glu 30	Ser 1300 Asp .5 Thr	Asn O Asp Gln	Ile Gly Ala	Thr Gly Val 1303	Lys Ser 1302 Asn	Asp 1300 Pro 20 Trp	His F Ile Thr	Met Thr Lys	Thr Gly Val 13040
E> E>	3023 3024 3025 3026 3027 3028 3029 3030	Arg Val Tyr 1302 Asn	Cys Ser 1301 Leu 25 Arg	Asp 1299 Trp 10 Leu Lys	Pro Pro Lys Glu	Pro Pro Lys	Val Pro Arg 1303 Ile	Ile Ala 1301 Glu 80 Glu	Ser 1300 Asp 5 Thr	Asn O Asp Gln Thr	Ile Gly Ala Leu	Thr Gly Val 1303 Lys	Lys Ser 1302 Asn 85 Ala	Asp 1300 Pro 20 Trp	His S Ile Thr	Met Thr Lys	Thr Gly Val 13040 Gln
E>	3023 3024 3025 3026 3027 3028 3029 3030 3031	Arg Val Tyr 1302 Asn	Cys Ser 1301 Leu 25 Arg	Asp 1299 Trp 10 Leu Lys	Pro Pro Lys Glu Pro	Pro Pro Lys Ile	Val Pro Arg 1303 Ile	Ile Ala 1301 Glu BO Glu	Ser 1300 Asp .5 Thr	Asn O Asp Gln Thr	Ile Gly Ala Leu 1305	Thr Gly Val 1303 Lys	Lys Ser 1302 Asn 85 Ala	Asp 1300 Pro 20 Trp	His S Ile Thr	Met Thr Lys Leu 1305	Thr Gly Val 13040 Gln 55
E> E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032	Arg Val Tyr 1302 Asn Glu	Cys Ser 1301 Leu 25 Arg	Asp 1299 Trp 10 Leu Lys	Pro Elys Glu Pro	Pro Pro Lys Ile 1304	Val Pro Arg 1303 Ile 15 Glu	Ile Ala 1301 Glu 80 Glu Phe	Ser 1300 Asp .5 Thr Arg	Asn O Asp Gln Thr	Ile Gly Ala Leu 1305	Thr Gly Val 1303 Lys 50 Ala	Lys Ser 1302 Asn S5 Ala Ile	Asp 1300 Pro 20 Trp Thr	His His Ile Thr Gly	Met Thr Lys Leu 1305 Ala	Thr Gly Val 13040 Gln 55
E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033	Arg Val Tyr 1302 Asn Glu	Cys Ser 1301 Leu 25 Arg	Asp 1299 Trp 10 Leu Lys	Pro Lys Glu Pro Glu 1306	Pro Pro Lys Ile 1304 Tyr	Val Pro Arg 1303 Ile 15 Glu	Ile Ala 1301 Glu 30 Glu Phe	Ser 1300 Asp .5 Thr Arg	Asn O Asp Gln Thr Val	Ile Gly Ala Leu 1305 Thr	Thr Gly Val 1303 Lys 50 Ala	Lys Ser 1302 Asn S5 Ala Ile	Asp 1300 Pro 20 Trp Thr	His Since Thr Gly Lys 1307	Met Thr Lys Leu 1305 Ala	Thr Gly Val 13040 Gln 55 Gly
E> E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034	Arg Val Tyr 1302 Asn Glu Pro	Cys Ser 1301 Leu 25 Arg Gly Gly	Asp 1299 Trp 10 Leu Lys Thr	Pro Elu Pro Glu 1306	Pro Pro Lys Ile 1304 Tyr 50 Ser	Val Pro Arg 1303 Ile 15 Glu Asp	Ile Ala 1301 Glu 30 Glu Phe Ala	Ser 1300 Asp .5 Thr Arg Arg	Asn O Asp Gln Thr Val 1306 Lys	Ile Gly Ala Leu 1305 Thr 55 Ala	Thr Gly Val 1303 Lys O Ala Ala	Lys Ser 1302 Asn S5 Ala Ile Tyr	Asp 1300 Pro 20 Trp Thr Asn	His Sille Thr Gly Lys 1307 Arg	Met Thr Lys Leu 1305 Ala	Thr Gly Val 13040 Gln 55 Gly
E> E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035	Arg Val Tyr 1302 Asn Glu Pro	Cys Ser 1301 Leu 25 Arg Gly Gly	Asp 1299 Trp 10 Leu Lys Thr	Pro Elu Pro Glu 1306 Pro 75	Pro Pro Lys Ile 1304 Tyr Ser	Val Pro Arg 1303 Ile IS Glu Asp	Ala 1301 Glu 30 Glu Phe Ala	Ser 1300 Asp 5 Thr Arg Arg Ser 1308	Asn O Asp Gln Thr Val 1306 Lys	Ile Gly Ala Leu 1305 Thr Ala	Thr Gly Val 1303 Lys O Ala	Lys Ser 1302 Asn S5 Ala Ile Tyr	Asp 1300 Pro 20 Trp Thr Asn Ala 1308	His His Ile Thr Gly Lys 1307 Arg	Met Thr Lys Leu 1305 Ala O Asp	Thr Gly Val 13040 Gln 55 Gly Pro
E> E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034	Arg Val Tyr 1302 Asn Glu Pro Gln	Cys Ser 1301 Leu 25 Arg Gly Gly Tyr	Asp 1299 Trp 10 Leu Lys Thr Lys 1307	Pro St Lys Glu Pro Glu 1306 Pro Pro	Pro Pro Lys Ile 1304 Tyr Ser Ala	Val Pro Arg 1303 Ile 15 Glu Asp	Ile Ala 1301 Glu 80 Glu Phe Ala Pro	Ser 1300 Asp 5 Thr Arg Arg Ser 1308	Asn O Asp Gln Thr Val Lys O Phe	Ile Gly Ala Leu 1305 Thr Ala Pro	Thr Gly Val 1303 Lys O Ala Ala	Lys Ser 1302 Asn S5 Ala Ile Tyr Val	Asp 1300 Pro 20 Trp Thr Asn Ala 1308	His His Ile Thr Gly Lys 1307 Arg	Met Thr Lys Leu 1305 Ala O Asp	Thr Gly Val 13040 Gln 55 Gly Pro
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E> E> E> E>	3023 3024 3025 3026 3027 3028 3029 3030 3031 3032 3033 3034 3035 3036 3037 3038 3039 3040 3041	Arg Val Tyr 1302 Asn Glu Pro Gln Arg 1310 Ser	Cys Ser 1301 Leu 25 Arg Gly Tyr 1309 Ser 05	Asp 1299 Trp 10 Leu Lys Thr Lys 130 Pro Ser Ile	Pro Pro Glu Pro Pro Val Ile	Pro Pro Lys Ile 1304 Tyr So Ser Ala Ser Gly 1312	Val Pro Arg 1303 Ile 15 Glu Asp Pro Leu 1313 Tyr	Ile Ala 1301 Glu O Glu Phe Ala Pro 1309 Ser O Leu	Ser 1300 Asp .5 Thr Arg Arg Ser 1308 Ala 5 Trp Val	Asn O Asp Gln Thr Val 1306 Lys O Phe Gly Glu	Ile Gly Ala Leu 1305 Thr Ala Pro Lys Val 1313	Thr Gly Val 1303 Lys O Ala Ala Lys Pro 1311 Lys	Lys Ser 1302 Asn S5 Ala Ile Tyr Val 1310 Ala L5 Arg	Asp 1300 Pro 20 Trp Thr Asn Ala 1308 Tyr O	His His Ile Thr Gly Lys 1307 Arg Asp Asp	Met Thr Lys Leu 1305 Ala O Asp Thr Gly Ser 1313	Thr Gly Val 13040 Gln 55 Gly Pro Thr Gly 13120 Asp
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E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230	Ser 1454 Glu Leu Leu Leu Ile 1462 Leu	Ala 15 Gln Val Gly Lys 146 Leu 25 Thr	Thr Ile Arg 1459 Gln 10 Asn Ala	Arg Met Ala 1458 Pro Thr Ile Arg	Leu 1456 Lys 30 Lys Gln Asn	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile	Pro Glu Gly Thr Val 1461 Cys 30 Val	Leu Asp Val 1460 Asn Val Gly	Asp Asn 1458 Thr O Phe Arg	Leu 1457 Ile 35 Trp Glu Ser Val	Arg 1455 Arg 0 Lys Lys Thr Asp 1463 Gly	Pro 55 Gly Val Lys Thr 1462 Ser 5	Val Ile Glu Gly 1460 Ala 20 Gly Val	Tyr Ile 1459 Asp 5 Thr Pro	Gln 1457 Pro 0 Gln Ser Tyr	14560 Lys 75 Val Ile Thr Pro 14640 Ile
E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231	Ser 1454 Glu Leu Leu Leu Ile 1462 Leu	Ala 15 Gln Val Gly Lys 146: Leu 25 Thr	Thr Ile Arg 1459 Gln 10 Asn Ala	Arg Met Ala 1458 Pro Thr Ile Arg	Leu 1456 Lys 0 Lys Gln Asn Asn	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile	Pro Glu Gly Thr Val 1461 Cys Val Val	Leu Asp Val 1460 Asn Val Gly	Asp Asn 1458 Thr O Phe Arg Glu	Leu 1457 Ile 35 Trp Glu Ser Val 1465	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly	Pro 55 Gly Val Lys Thr 1462 Ser 35 Asp	Val Ile Glu Gly 1460 Ala 20 Gly Val	Tyr Ile 1459 Asp 5 Thr Pro	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465	14560 Lys 5 Val Ile Thr Pro 14640 Ile
E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232	Ser 1454 Glu Leu Leu Leu Ile 1462 Leu Gln	Ala 15 Gln Val Gly Lys 146: Leu 25 Thr	Thr Ile Arg 1459 Gln 10 Asn Ala His	Arg Met Ala 1458 Pro Thr Ile Arg Asp	Leu 1456 Lys 0 Lys Gln Asn 1464	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile Pro	Pro Glu Gly Thr Val 1461 Cys 30 Val	Leu Asp Val 1460 Asn Val Gly Pro	Asp Asn 1458 Thr O Phe Arg Glu Pro	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly 60 Gly	Pro 55 Gly Val Lys Thr 1462 Ser 55 Asp	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465 Phe	14560 Lys 5 Val Ile Thr Pro 14640 Ile
E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233	Ser 1454 Glu Leu Leu Leu Gln	Ala 15 Gln Val Gly Lys 146: Leu 25 Thr	Gly Thr Ile Arg 1459 Gln LO Asn Ala His	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp	Leu 1456 Lys 0 Lys Gln Asn 1464 Ile	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile 15 Pro	Pro Glu Gly Thr Val 1461 Cys 30 Val	Arg Leu Asp Val 1460 Asn Val Gly Pro	Asp Asn 1458 Thr O Phe Arg Glu Pro 1466	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly 60 Gly	Pro S S Gly Val Lys Thr 1462 Ser S Asp Pro	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys 1467	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465 Phe	14560 Lys 5 Val Ile Thr Pro 14640 Ile 5 Asp
E> E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233	Ser 1454 Glu Leu Leu Leu Gln Glu	Ala 15 Gln Val Gly Lys 146: Leu 25 Thr Val Val	Thr Ile Arg 1459 Gln LO Asn Ala His	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp 1466 Ser	Leu 1456 Lys 30 Lys Gln Asn 1464 Ile 50 Asp	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile 15 Pro	Pro Glu Gly Thr Val 1461 Cys 30 Val Gly Val	Leu Asp Val 1460 Asn Val Gly Pro Thr	Asp Asn 1458 Thr O Phe Arg Glu Pro 1466 Phe	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr 55 Ser	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly 60 Gly	Pro S5 Gly Val Lys Thr 1462 Ser S5 Asp Pro Asp	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys 1467	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465 Phe	14560 Lys 5 Val Ile Thr Pro 14640 Ile 5 Asp
E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3230 3231 3232 3233 3234 3235	Ser 1454 Glu Leu Leu Leu Gln Glu	Ala 45 Gln Val Gly Lys 146 Leu 25 Thr Val Val	Thr Ile Arg 1459 Gln 10 Asn Ala His Ser 1467	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp 1466 Ser	Leu 1456 Lys 30 Lys Gln Asn 1464 Ile 50 Asp	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile 15 Pro Phe	Pro Glu Gly Thr Val 1461 Cys 30 Val Gly Val	Leu Asp Val 1460 Asn Val Gly Pro Thr 1468	Asp Asn 1456 Thr O Phe Arg Glu Pro 1466 Phe	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr 55 Ser	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly Gly Trp	Pro 55 Gly Val Lys Thr 1462 Ser 35 Asp Pro Asp	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro 1468	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys 1467 Pro	Gln 1457 Pro Gln Ser Tyr Thr 1465 Phe Glu	14560 Lys 75 Val Ile Thr Pro 14640 Ile 55 Asp Asn
E> E> E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3230 3231 3232 3233 3234 3235 3236	Ser 1454 Glu Leu Leu Ile 1462 Leu Gln Glu Asp	Ala 45 Gln Val Gly Lys 146 Leu Thr Val Val Gly	Thr Ile Arg 1459 Gln 10 Asn Ala His Ser 1467 Gly	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp 1466 Ser 75	Leu 1456 Lys 0 Lys Gln Asn 1464 Ile 0 Asp	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile Pro Phe Ile	Pro Glu Gly Thr Val 1461 Cys 30 Val Gly Val Ser	Leu Asp Val 1460 Asn Val Gly Pro Thr 1468 Asn	Asp Asn 1458 Thr O Phe Arg Glu Pro 1466 Phe 30 Tyr	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr 55 Ser Val	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly Gly Trp Val	Pro S Gly Val Lys Thr 1462 Ser S Asp Pro Asp Glu	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro 1468 Met	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys 1467 Pro	Gln 1457 Pro Gln Ser Tyr Thr 1465 Phe Glu	14560 Lys 75 Val Ile Thr Pro 14640 Ile 55 Asp Asn
E> E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237	Ser 1454 Glu Leu Leu Leu Gln Glu Asp	Ala 15 Gln Val Gly Lys 146: Thr Val Val Gly 146:	Thr Ile Arg 1459 Gln O Asn Ala His Ser 1467 Gly 90	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp 1466 Ser 75 Val	Leu 1456 Lys 0 Lys Gln Asn 1464 Ile 0 Asp	Ala 1455 Pro 5 Ala Pro Arg Glu 1463 Ile Pro Phe Ile	Pro Glu Gly Thr Val 1461 Cys 30 Val Gly Val Ser 1469	Leu Asp Val 1460 Asn Val Gly Pro Thr 1468 Asn	Asp Asn 1458 Thr O Phe Arg Glu Pro 1466 Phe 30 Tyr	Leu 1457 Ile 55 Trp Glu Ser Val 1465 Thr 55 Ser Val	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly Gly Trp Val	Pro S5 Gly Val Lys Thr 1462 Ser S5 Asp Pro Asp Glu 1470	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro 1468 Met	Tyr Ile 1459 Asp 5 Thr Pro Ile Lys 1467 Pro 85 Arg	Gln 1457 Pro Gln Ser Tyr Thr 1465 Phe Glu Gln	14560 Lys 75 Val Ile Thr Pro 14640 Ile 55 Asp Asn Thr
E> E> E> E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238	Ser 1454 Glu Leu Leu Leu Gln Glu Asp	Ala 15 Gln Val Gly Lys 146: Leu Thr Val Val Gly 146: Ser	Thr Ile Arg 1459 Gln O Asn Ala His Ser 1467 Gly O Thr	Arg Met Ala 1458 Pro 5 Thr Ile Arg Asp 1466 Ser 75 Val Thr	Leu 1456 Lys 30 Lys Gln Asn 1464 Ile 50 Asp Pro	Ala 1455 Pro 55 Ala Pro Arg Glu 1463 Ile 15 Pro Phe Ile Val	Pro Glu Gly Thr Val 1461 Cys O Val Gly Val Ser 1469 Glu	Leu Asp Val 1460 Asn Val Gly Pro Thr 1468 Asn Leu	Asp Asn 1458 Thr O Phe Arg Glu Pro 1466 Phe 30 Tyr Ala	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr 55 Ser Val	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly Trp Val Thr	Pro S Gly Val Lys Thr 1462 Ser S Asp Pro Asp Glu 1470 Val	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro 1468 Met 00 Ile	Tyr Ile 1459 Asp Thr Pro Ile Lys 1467 Pro S5 Arg	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465 Phe 0 Glu Gln Thr	14560 Lys 75 Val Ile Thr Pro 14640 Ile 55 Asp Asn Thr
E> E> E> E> E> E>	3218 3219 3220 3221 3222 3223 3224 3225 3226 3227 3228 3229 3230 3231 3232 3233 3234 3235 3236 3237 3238	Ser 1454 Glu Leu Leu Leu Gln Glu Asp Asp	Ala 45 Gln Val Gly Lys 146 Leu 25 Thr Val Val Gly 146 Ser	Thr Ile Arg 1459 Gln IO Asn Ala His Ser 1467 Gly O Thr	Arg Met Ala 1458 Pro Thr Ile Arg Asp 1466 Ser Val Thr	Leu 1456 Lys 30 Lys Gln Asn 1464 Ile 50 Asp Pro	Ala 1455 Pro 5 Ala Pro Arg Glu 1463 Ile Pro Phe Ile Val 1473	Pro Glu Gly Thr Val 1461 Cys 30 Val Gly Val Ser 1469 Glu 10	Leu Asp Val 1460 Asn Val Gly Pro Thr 1468 Asn 5 Leu	Asp Asn 1456 Thr O Phe Arg Glu Pro 1466 Phe 30 Tyr Ala	Leu 1457 Ile 35 Trp Glu Ser Val 1465 Thr 55 Ser Val Thr	Arg 1455 Arg 70 Lys Lys Thr Asp 1463 Gly Trp Val Thr 1473	Pro 55 Gly Val Lys Thr 1462 Ser 35 Asp Pro Asp Glu 1470 Val	Val Ile Glu Gly 1460 Ala 20 Gly Val Ile Pro 1468 Met 00 Ile	Tyr Ile 1459 Asp Thr Pro Ile Lys 1467 Pro S5 Arg	Gln 1457 Pro 0 Gln Ser Tyr Thr 1465 Phe Glu Gln Thr	14560 Lys 75 Val Ile Thr Pro 14640 Ile 55 Asp Asn Thr Thr 14720

E>	3241					1472	25				1473	30				1473	35
	3242																
E>	3243									-		_			1475		115
	3244															-	Pro
E>	3245					_			_	50		-		1476	-		
	3246															His	Glu
E>	3247							1477	_				1478				4
	3248												Tvr	His	Val	Glu	Arq
E>					_	_	_					_	_				14800
	3250																
E>	3251	-							_					4			
	3252																
E>	3253						_			•			_	-			•
	3254	Glu	Phe	Arg	Val	Ile	Ala	Glu	Asn	Met	Ala	Gly	Lys	Ser	Lys	Pro	Ser
E>	3255	,		1483	35				1484	10			_	1484	15		
	3256	Lys	Pro	Ser	Glu	Pro	Met	Leu	Ala	Leu	Asp	Pro	Ile	Asp	Pro	Pro	Gly
E>	3257		1485	50				1485	55				1486	60			
	3258																
E>																	14880
	3260		_			_		_	_						_		
E>	3261																
	3262		-	_	_				-	_	-		-				Ser
E>	3263																
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E>		-						-							1499	_	
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E>	3275						-		-	_	-					<u>1</u>	
	3276															Val	Asn
E>	3277						_			_			1502				
	3278												Thr	Leu	Thr	Ala	Thr
E>		_	_			_	_	_		_							15040
	3280																
E>	3281			_	_			_						_			-
	3282	Arg	Pro	Gly	Pro	Pro	Glu	Gly	Pro	Leu	Ala	Val	Thr	Glu	Val	Thr	Ser
E>	3283				1506	50				1506	55				1507	70	
	3284	Glu	Lys	Cys	Val	Leu	Ser	Trp	Phe	Pro	Pro	Leu	Asp	Asp	Gly	Gly	Ala
E>	3285			150	75				1508	30				1508	35		
	3286	Lys	Ile	Asp	His	Tyr	Ile	Val	Gln	Lys	Arg	Glu	Thr	Ser	Arg	Leu	Ala
E>								1509					1510				
		-											_		_		Thr
E>	3289	1510)5				151:	10				1511	15				15120

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E>	3291																
	3292	Lys	Tyr	Gly	Val	Gly	Glu	Pro	Leu	Glu	Ser	Glu	Pro	Val	Leu	Ala	Val
E>	3293																
	3294							_			-					Thr	Thr
E>	3295																
_	3296														Asp	Ser	Asp
E>	3297																
	3298																
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	3300							_		_	_				_		-
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E>	3315			1531	L 5			_	1532	20		_		1532	25		
	3315 3316	Glu	Tyr	1531 Lys	l 5 Ile	Arg	Ile	Tyr	1532 Ala	20 Met	Asn	Ser	Glu	1532 Gly	25		
E>	3315 3316 3317	Glu	Tyr 1533	1531 Lys 30	l 5 Ile	Arg	Ile	Tyr 1533	1532 Ala 35	20 Met	Asn	Ser	Glu 153 4	1532 Gly 10	2 5 Leu	Gly	Glu
E>	3315 3316 3317 3318	Glu- Pro	Tyr 1533 Ala	1531 Lys 30 Leu	I 5 Ile Val	Arg Pro	Ile Gly	Tyr 1533 Thr	1532 Ala 35 Pro	Met Lys	Asn Ala	Ser Glu	Glu 1534 Asp	1532 Gly 10 Arg	25 Leu Met	Gly Leu	Glu Pro
E>	3315 3316 3317 3318 3319	Glu- Pro 153 4	Tyr 153 Ala 15	1531 Lys 30 Leu	I 5 Ile Val	Arg Pro	Ile Gly 1535	Tyr 1533 Thr	1532 Ala 35 Pro	Met Lys	Asn Ala	Ser Glu 1535	Glu 153 4 Asp	1532 Gly 40 Arg	25 Leu Met	Gly Leu	Glu Pro 15360
E>	3315 3316 3317 3318 3319 3320	Glu Pro 1534 Pro	Tyr 153 3 Ala 15 Glu	Lys BO Leu Ile	Ile Val Glu	Arg Pro Leu	Ile Gly 153 5 Asp	Tyr 1533 Thr 50 Ala	1532 Ala 85 Pro	Met Lys Leu	Asn Ala Arg	Ser Glu 1535 Lys	Glu 1534 Asp 55 Val	1532 Gly 10 Arg Val	Leu Met Thr	Gly Leu	Glu Pro 15360 Arg
E>	3315 3316 3317 3318 3319 3320 3321	Glu- Pro 153 4 Pro	Tyr 153: Ala 15 Glu	Lys 30 Leu Ile	Ile Val Glu	Arg Pro Leu 1536	Ile Gly 153 5 Asp	Tyr 1533 Thr 50 Ala	Ala Ala B5 Pro Asp	Met Lys Leu	Asn Ala Arg 1537	Ser Glu 153 5 Lys 70	Glu 1534 Asp S5 Val	1532 Gly 10 Arg Val	Leu Met Thr	Gly Leu Ile 1537	Glu Pro 15360 Arg
E> E>	3315 3316 3317 3318 3319 3320	Glu Pro 1534 Pro	Tyr 153: Ala 15 Glu Cys	Lys 30 Leu Ile Cys	Ile Val Glu Thr	Arg Pro Leu 1536 Leu	Ile Gly 1535 Asp 55 Arg	Tyr 1533 Thr 50 Ala	Ala S5 Pro Asp	Met Lys Leu Val	Asn Ala Arg 1537	Ser Glu 1535 Lys 70 Ile	Glu 1534 Asp 55 Val Lys	1532 Gly 10 Arg Val	Leu Met Thr	Gly Leu Ile 1537 Pro	Glu Pro 15360 Arg
E> E>	3315 3317 3318 3319 3320 3321 3322	Glu Pro 1534 Pro Ala	Tyr 1533 Ala 15 Glu Cys	Lys 30 Leu Ile Cys	Ile Val Glu Thr 1538	Arg Pro Leu 1536 Leu 80	Ile Gly 153 Asp 5 Arg	Tyr 1533 Thr 50 Ala Leu	Ala S5 Pro Asp	Met Lys Leu Val 1538	Asn Ala Arg 1537 Pro	Ser Glu 1535 Lys 70 Ile	Glu 1534 Asp 55 Val Lys	1532 Gly 10 Arg Val	Leu Met Thr Arg	Gly Leu Ile 1537 Pro	Glu Pro 15360 Arg 75 Asp
E> E> E>	3315 3317 3318 3319 3320 3321 3322 3323	Glu Pro 1534 Pro Ala Pro	Tyr 153: Ala 15 Glu Cys	Lys 30 Leu Ile Cys	Ile Val Glu Thr 1538	Arg Pro Leu 1536 Leu 0 Trp	Ile Gly 1535 Asp 55 Arg Ala	Tyr 1533 Thr 50 Ala Leu	Ala Asp Asp Asp	Met Lys Leu Val 1538	Asn Ala Arg 1537 Pro	Ser Glu 1535 Lys 70 Ile Glu	Glu 1534 Asp 55 Val Lys Ser	1532 Gly 10 Arg Val	Leu Met Thr Arg 1539	Gly Leu Ile 1537 Pro	Glu Pro 15360 Arg 75 Asp
E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324	Pro 1534 Pro Ala Pro	Tyr 153: Ala 5 Glu Cys	Lys 30 Leu Ile Cys Val 1539	Val Glu Thr 1538 Lys	Arg Pro Leu 1536 Leu Trp	Gly 1535 Asp 55 Arg Ala	Tyr 1533 Thr 50 Ala Leu	Ala Ala Pro Asp Phe Asp	Met Lys Leu Val His	Asn Ala Arg 1537 Pro B5 Gly	Ser Glu 1535 Lys 70 Ile Glu	Glu 1534 Asp 55 Val Lys Ser	1532 Gly 10 Arg Val Gly Leu 1540	Leu Met Thr Arg 1539 Asp	Gly Leu Ile 1537 Pro O Lys	Glu Pro 15360 Arg 75 Asp Ala
E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326	Glu- Pro 1534 Pro Ala Pro Ser	Tyr 153: Ala 15 Glu Cys Glu Ile	Lys 30 Leu Ile Cys Val 1539	Val Glu Thr 1538 Lys Ser	Arg Pro Leu 1536 Leu Trp Ala	Gly 1535 Asp 55 Arg Ala Ser	Tyr 1533 Thr 60 Ala Leu Arg	Ala Ala Pro Asp Phe Asp Tyr	Met Lys Leu Val 1538 His 0 Thr	Asn Ala Arg 1537 Pro B5 Gly	Ser Glu 1535 Lys 70 Ile Glu Leu	Glu 1534 Asp 55 Val Lys Ser	1532 Gly 10 Arg Val Gly Leu 1540 Val	Leu Met Thr Arg 1539 Asp	Gly Leu Ile 1537 Pro O Lys	Glu Pro 15360 Arg 75 Asp Ala
E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328	Pro 1534 Pro Ala Pro Ser Asn	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg	Lys Lys Leu Leu Lle Cys Val 1539 Glu O Phe	Val Glu Thr 1538 Lys Ser Asp	Arg Pro Leu 1536 Leu 7rp Ala Ser	Gly 1535 Asp 55 Arg Ala Ser	Tyr 1533 Thr 50 Ala Leu Arg Ser 1541	Ala Fro Asp Phe Asp Tyr	Met Lys Leu Val 1538 His O Thr	Asn Ala Arg 1537 Pro Gly Leu	Ser Glu 1535 Lys 70 Ile Glu Leu	Glu 1534 Asp 55 Val Lys Ser Ile 1542	1532 Gly 10 Arg Val Gly Leu 1540 Val	Leu Met Thr Arg 1539 Asp Of	Gly Leu Ile 1537 Pro O Lys Asn	Glu Pro 15360 Arg 75 Asp Ala
E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329	Pro 1534 Pro Ala Pro Ser Asn 1542	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg	Lys 30 Leu Ile Cys Val 1539 Glu 10 Phe	Ile Val Glu Thr 1538 Lys Ser Asp	Arg Pro Leu 1536 Leu Trp Ala Ser	Ile Gly 1535 Asp 55 Arg Ala Ser Gly 1543	Tyr 1533 Thr 60 Ala Leu Arg Ser 1541 Lys	Ala Ala Pro Asp Phe Asp 1540 Tyr Tyr	Met Lys Leu Val 1538 His O Thr	Asn Ala Arg 1537 Pro S5 Gly Leu Leu	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu	Leu Met Thr Arg 1539 Asp Gly Asn	Gly Leu Ile 1537 Pro O Lys Asn Ser	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440
E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330	Pro 1534 Pro Ala Pro Ser Asn 1542 Gly	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg Ser	Lys Lys Leu Leu Cys Val 1539 Glu O Phe Lys	Ile Val Glu Thr 1538 Lys Ser Asp Ser	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala	Gly 153: Asp 5 Arg Ala Ser Gly 1543 Phe	Tyr 1533 Thr 0 Ala Leu Arg Ser 1541 Lys Val	Asp Asp Asp Asp Tyr Asn	Met Lys Leu Val 1538 His O Thr Ile Val	Asn Ala Arg 1537 Pro 35 Gly Leu Leu Arg	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val S5 Leu	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu Asp	Leu Met Thr Arg 1539 Asp Gly Asn Thr	Gly Leu Ile 1537 Pro O Lys Asn Ser	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440
E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg 25 Ser	Lys Lys Leu Leu Cys Val 1539 Glu Phe Lys	Ile Val Glu Thr 1538 Lys Ser Asp Ser	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544	Gly 153 Asp 5 Arg Ala Ser Gly 1543 Phe	Tyr 1533 Thr 0 Ala Leu Arg Ser 1541 Lys Val	Asp Asp Asp Asp Tyr Asn	Met Lys Leu Val 1538 His O Thr Ile Val	Asn Ala Arg 1537 Pro S5 Gly Leu Arg 1545	Ser Glu 1535 Lys 70 Ile Glu Leu Thr 1543 Val	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val 35 Leu	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu Asp	Leu Met Thr Arg 1539 Asp Gly Asn Thr	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 55
E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg Ser Pro	Lys Lys Leu Leu Lys Val 1539 Glu O Phe Lys Gln	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544 Leu	Ile Gly 1535 Asp 5 Arg Ala Ser Gly 1543 Phe 15	Tyr 1533 Thr 0 Ala Leu Arg Ser 1541 Lys Val	Asp Asp Asp Asp Tyr Asn Lys	Met Lys Leu Val 1538 His O Thr Ile Val Glu	Asn Ala Arg 1537 Pro S Gly Leu Arg 1545 Val	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val 50 Thr	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val S5 Leu Lys	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu Asp Thr	Leu Met Thr Arg 1539 Asp Of Gly Asn Thr Ser	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 55
E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro	Tyr 153: Ala 5 Glu Cys Glu Ile 154: Arg Ser Pro	Lys Lys Leu Leu Lys Val 1539 Glu O Phe Lys Gln	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp	Arg Pro Leu 1536 Leu 0 Trp Ala Ser Ala 1544 Leu 0	Ile Gly 153: Asp 5 Arg Ala Ser Gly 1543 Phe Lys	Tyr 1533 Thr 0 Ala Leu Arg Ser 1541 Lys Val	Asp Asp Asp Asp Asp Tyr Asn Lys	Met Lys Leu Val 1538 His O Thr Ile Val Glu 1546	Asn Ala Arg 1537 Pro 35 Gly Leu Arg 1545 Val	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val 50 Thr	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val S5 Leu Lys	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu Asp Thr	Leu Met Thr Arg 1539 Asp Sly Asn Thr Ser 1547	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 75 Thr
E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro Leu	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg Ser Pro	Lys 30 Leu Ile Cys Val 1539 Glu 10 Phe Lys Gln Trp	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544 Leu 0 Pro	Ile Gly 153: Asp 5 Arg Ala Ser Gly 154: Phe Lys Pro	Tyr 1533 Thr 60 Ala Leu Arg Ser 1541 Lys Val Val Leu	Ala Ala Fro Asp Phe Asp 1540 Tyr Asn Lys Leu	Met Lys Leu Val 1538 His O Thr Ile Val Glu 1546 Asp	Asn Ala Arg 1537 Pro 35 Gly Leu Arg 1545 Val Gly	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val 50 Thr	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val Lys Lys Ser	Gly Arg Val Gly Leu 1540 Val Co Glu Asp Thr	Leu Met Thr Arg 1539 Asp 5 Gly Asn Thr Ser 1547 Ile	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 75 Thr
E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3330 3331 3332 3333 3334 3335	Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro Leu	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg Ser Pro Thr	Lys 30 Leu Ile Cys Val 1533 Glu 0 Phe Lys Gln Trp 1547	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp Asp 1546 Asp	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544 Leu 0 Pro	Ile Gly 153: Asp 5 Arg Ala Ser Gly 154: Phe Lys Pro	Tyr 1533 Thr 60 Ala Leu Arg Ser 1541 Lys Val Val Leu	Ala Ala Fro Asp Phe Asp Tyr Tyr Asn Lys Leu 1548	Met Lys Leu Val 1538 His O Thr Ile Val Glu 1546 Asp	Asn Ala Arg 1537 Pro S5 Gly Leu Arg 1545 Val Gly	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val 50 Thr	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val Lys Leu Lys	Gly 10 Arg Val Gly Leu 1540 Val Colu Asp Thr Lys 1548	Leu Met Thr Arg 1539 Asp Soly Asn Thr Ser 1547 Ile	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val O Lys	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 55 Thr Asn
E> E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3331 3332 3333 3334 3335 3336	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro Leu Tyr	Tyr 153: Ala 15 Glu Cys Glu Ile 154: Arg Ser Pro Thr	Lys Lys Leu Leu Lys Val 1539 Glu Phe Lys Gln Trp 1547 Val	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp Glu Asp Glu Glu	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544 Leu 7ro Lys	Ile Gly 1535 Asp 5 Arg Ala Ser Gly 1543 Phe 15 Lys Pro Arg	Tyr 1533 Thr 0 Ala Leu Arg Ser 1541 Lys Val Val Leu Glu	Ala Ala Fro Asp Phe Asp Tyr Asn Lys Leu 1548 Ser	Met Lys Leu Val 1538 His O Thr Ile Val Glu 1546 Asp Thr	Asn Ala Arg 1537 Pro Soly Leu Arg 1545 Val Soly Arg	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val O Thr Gly Lys	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val Lys Lys Ala	1532 Gly 10 Arg Val Gly Leu 1540 Val 20 Glu Asp Thr Lys 1548 Tyr	Leu Met Thr Arg 1539 Asp Soly Asn Thr Ser 1547 Ile	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val O Lys	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 55 Thr Asn
E> E> E> E> E> E>	3315 3316 3317 3318 3319 3320 3321 3322 3323 3324 3325 3326 3327 3328 3329 3331 3332 3333 3334 3335 3336	Glu- Pro 1534 Pro Ala Pro Ser Asn 1542 Gly Pro Leu Tyr	Tyr 153: Ala 5 Glu Cys Glu Ile 154: Arg Ser Pro Thr Ile 154:	Lys Lys Leu Leu Lys Val 1539 Glu Phe Lys Gln Trp 1547 Val	Ile Val Glu Thr 1538 Lys Ser Asp Ser Asp Glu Asp Glu Glu	Arg Pro Leu 1536 Leu 7rp Ala Ser Ala 1544 Leu 7ro Lys	Ile Gly 153: Asp 5 Arg Ala Ser Gly 154: Phe Lys Pro Arg	Tyr 1533 Thr 60 Ala Leu Arg Ser 1541 Lys Val Val Leu Glu 1549	Ala Ala Fro Asp Phe Asp Tyr Asn Lys Leu 1548 Ser	Met Lys Leu Val 1538 His O Thr Ile Val Glu 1546 Asp Thr	Asn Ala Arg 1537 Pro 35 Gly Leu Arg 1545 Val 65 Gly Arg	Ser Glu 1535 Lys O Ile Glu Leu Thr 1543 Val O Thr Gly Lys	Glu 1534 Asp 55 Val Lys Ser Ile 1542 Val S5 Leu Lys Ser Ala 1550	Gly Arg Val Gly Leu 1540 Val Glu Asp Thr Lys 1548 Tyr	Leu Met Thr Arg 1539 Asp 5 Gly Asn Thr Ser 1547 Ile 5 Ser	Gly Leu Ile 1537 Pro O Lys Asn Ser Pro 1545 Val O Lys Thr	Glu Pro 15360 Arg 75 Asp Ala Val Ser 15440 Gly 75 Thr Asn Val

E>	3339	1550	05				155	10				155	15				15520
	3340																
E>																	
	3342	Gly	Leu	Pro	Ala	Glu	Thr	Ala	Glu	Ser	Val	Lys	Ala	Ser	Glu	Arg	Pro
E>	3343				1554	10				1554	45				1555	50	
	3344	Leu	Pro	Pro	Gly	Lys	Ile	Thr	Leu	Met	Asp	Val	Thr	Arg	Asn	Ser	Val
E>	3345			1555	55				155	60				155	55		
	3346	Ser	Leu	Ser	Trp	Glu	Lys	Pro	Glu	${ t His}$	Asp	Gly	Gly	Ser	Arg	Ile	Leu
E>	3347		1557	70				155	75				1558	30			
	3348	Gly	Tyr	Ile	Val	Glu	Met	Gln	Thr	Lys	Gly	Ser	Asp	Lys	Trp	Ala	Thr
E>	3349	1558	35				1559	90				1559	95				15600
	3350					_								_		Ile	Gln
E>	3351															1561	
	3352	_			_			_							_	_	Ile
E>	3353														1563		_
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E>	3360																
E>	3361				_		-	пор					-			1569	_
	3362																
E>	3363															-	
																	Ser
E>	3364	Ala	Cys	Arg	Glu	Asp	Val	Gly	${ t His}$	Tyr	Val	Val	Lys		Thr		Ser
E>		Ala	Cys	Arg 157 1	Glu L 5	Asp	Val	Gly	His 157 2	Tyr 20	Val	Val	Lys	Leu 1572	Thr 25	Asn	
	3364 3365	Ala Ala	Cys Gly	Arg 157 1 Glu	Glu L 5 Ala	Asp Ile	Val Glu	Gly Thr	His 1572 Leu	Tyr 20 Asn	Val Val	Val Ile	Lys	Leu 1572 Leu	Thr 25	Asn	
	3364 3365 3366 3367	Ala Ala	Cys Gly 157 3	Arg 157 1 Glu 30	Glu L 5 Ala	Asp Ile	Val Glu	Gly Thr 1573	His 1572 Leu 35	Tyr 2 0 Asn	Val Val	Val Ile	Lys Val 1574	Leu 1572 Leu 10	Thr 25 Asp	Asn Lys	
E>	3364 3365 3366 3367 3368 3369	Ala Ala Gly 1574	Cys Gly 1573 Pro	Arg 1571 Glu 30 Pro	Glu L 5 Ala Thr	Asp Ile Gly	Val Glu Pro 1575	Gly Thr 1573 Val	His 1572 Leu 35 Lys	Tyr 20 Asn Met	Val Val Asp	Val Ile Glu 1575	Lys Val 1574 Val	Leu 1572 Leu 10 Thr	Thr 25 Asp Ala	Asn Lys Asp	Pro Ser 15760
E>	3364 3365 3366 3367 3368	Ala Ala Gly 1574	Cys Gly 1573 Pro	Arg 1571 Glu 30 Pro	Glu L5 Ala Thr	Asp Ile Gly Trp	Val Glu Pro 1575 Gly	Thr 1573 Val 60 Pro	His 1572 Leu 35 Lys Pro	Tyr 20 Asn Met Lys	Val Val Asp Tyr	Val Ile Glu 1575 Asp	Lys Val 1574 Val 55 Gly	Leu 1572 Leu 10 Thr	Thr 25 Asp Ala Ser	Asn Lys Asp	Pro Ser 15760
E>	3364 3365 3366 3367 3368 3369 3370 3371	Ala Ala Gly 1574 Ile	Gly 1573 Pro 15 Thr	Arg 1571 Glu 30 Pro Leu	Glu L5 Ala Thr Ser	Asp Ile Gly Trp 1576	Val Glu Pro 1575 Gly	Thr 1573 Val 60 Pro	His 1572 Leu 35 Lys Pro	Tyr 20 Asn Met Lys	Val Val Asp Tyr 1577	Val Ile Glu 1575 Asp	Lys Val 1574 Val 55 Gly	Leu 1572 Leu 10 Thr	Thr 25 Asp Ala Ser	Asn Lys Asp Ser 1577	Pro Ser 15760 Ile
E> E>	3364 3365 3366 3367 3368 3370 3371 3372	Ala Ala Gly 1574 Ile Asn	Cys Gly 1573 Pro 15 Thr Asn	Arg 1571 Glu 30 Pro Leu Tyr	Glu L5 Ala Thr Ser	Asp Ile Gly Trp 1576 Val	Val Glu Pro 1575 Gly 55 Glu	Thr 1573 Val 50 Pro	His 1572 Leu S5 Lys Pro	Tyr 20 Asn Met Lys Asp	Val Val Asp Tyr 1577	Val Ile Glu 1575 Asp O Ser	Val 1574 Val S5 Gly	Leu 1572 Leu 10 Thr Gly	Thr 25 Asp Ala Ser	Asn Lys Asp Ser 1577	Pro Ser 15760 Ile
E> E>	3364 3365 3367 3368 3369 3370 3371 3372 3373	Ala Ala Gly 1574 Ile Asn	Gly 1573 Pro 15 Thr	Arg 1571 Glu 30 Pro Leu Tyr	Glu L5 Ala Thr Ser Ile 1578	Asp Ile Gly Trp 1576 Val	Val Glu Pro 1575 Gly 55 Glu	Thr 1573 Val 60 Pro	His 1572 Leu 35 Lys Pro	Tyr 20 Asn Met Lys Asp	Val Val Asp Tyr 1577 Thr	Val Ile Glu 1579 Asp O Ser	Val 1574 Val S5 Gly	Leu 1572 Leu 10 Thr Gly Thr	Thr 25 Asp Ala Ser Thr 1579	Asn Lys Asp Ser 1577 Trp	Pro Ser 15760 Ile 75 Gln
E> E> E>	3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374	Ala Ala Gly 1574 Ile Asn Ile	Gly 1573 Pro 15 Thr Asn	Arg 1571 Glu 30 Pro Leu Tyr Ser	Glu L5 Ala Thr Ser Ile 1578 Ala	Asp Ile Gly Trp 1576 Val 80 Thr	Val Glu Pro 1575 Gly 55 Glu Val	Thr 1573 Val 50 Pro Lys	His 1572 Leu 35 Lys Pro Arg	Tyr 20 Asn Met Lys Asp 1578	Val Val Asp Tyr 1577 Thr Thr	Val Ile Glu 1575 Asp O Ser Ile	Lys Val Val S5 Gly Thr	Leu 1572 Leu 10 Thr Gly Thr	Thr 25 Asp Ala Ser Thr 1579 Cys	Asn Lys Asp Ser 1577 Trp	Pro Ser 15760 Ile 75 Gln
E> E> E>	3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375	Ala Ala Gly 1574 Ile Asn Ile	Cys Gly 1573 Pro 15 Thr Asn Val	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579	Glu 15 Ala Thr Ser Ile 1578 Ala	Asp Ile Gly Trp 1576 Val Thr	Val Glu Pro 1575 Gly 55 Glu Val	Thr 1573 Val 50 Pro Lys Ala	His 1572 Leu 35 Lys Pro Arg Arg	Tyr 20 Asn Met Lys Asp 1578 Thr	Val Val Asp Tyr 1577 Thr Thr	Val Ile Glu 1575 Asp O Ser Ile	Lys Val 1574 Val Gly Thr	Leu 1572 Leu 10 Thr Gly Thr Ala 1580	Thr 25 Asp Ala Ser Thr 1579 Cys	Asn Lys Asp Ser 1577 Trp 0 Arg	Pro Ser 15760 Ile 75 Gln Leu
E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376	Ala Ala Gly 1574 Ile Asn Ile Lys	Cys Gly 1573 Pro 15 Thr Asn Val	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly	Glu 15 Ala Thr Ser Ile 1578 Ala 55 Cys	Asp Ile Gly Trp 1576 Val 30 Thr	Val Glu Pro 1575 Gly 55 Glu Val Tyr	Thr 1573 Val 50 Pro Lys Ala Gln	His 1572 Leu 35 Lys Pro Arg 1580 Phe	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg	Val Val Asp Tyr 1577 Thr Thr Ile	Val Ile Glu 1575 Asp O Ser Ile Ala	Lys Val 1574 Val 65 Gly Thr Lys Ala	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu	Thr 25 Asp Ala Ser Thr 1579 Cys	Asn Lys Asp Ser 1577 Trp 0 Arg	Pro Ser 15760 Ile 75 Gln Leu
E> E> E>	3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377	Ala Ala Gly 1574 Ile Asn Ile Lys	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly	Glu L5 Ala Thr Ser Ile 1578 Ala Cys	Asp Ile Gly Trp 1576 Val Thr Glu	Val Glu Pro 1575 Gly 55 Glu Val Tyr	Thr 1573 Val 0 Pro Lys Ala Gln 1581	His 1572 Leu 35 Lys Pro Arg Arg Phe 1580	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg	Val Val Asp Tyr 1577 Thr Thr Ile	Val Ile Glu 1575 Asp O Ser Ile Ala	Val Val Val S5 Gly Thr Lys Ala 1582	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn	Asn Lys Asp Ser 1577 Trp O Arg	Pro Ser 15760 Ile 75 Gln Leu Tyr
E> E> E> E>	3364 3365 3366 3367 3368 3369 3370 3371 3372 3373 3374 3375 3376 3377	Ala Ala Gly 1574 Ile Asn Ile Lys Gly	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser	Glu 15 Ala Thr Ser Ile 1578 Ala Cys Thr	Asp Ile Gly Trp 1576 Val 30 Thr Glu Tyr	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu	Thr 1573 Val 50 Pro Lys Ala Gln 1581 Asn	His 1572 Leu 35 Lys Pro Arg 1580 Phe Ser	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro	Val Ile Glu 1575 Asp O Ser Ile Ala Thr	Val Val Val S5 Gly Thr Lys Ala 1582 Val	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn	Asn Lys Asp Ser 1577 Trp O Arg Arg	Pro Ser 15760 Ile 75 Gln Leu Tyr Pro
E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376 3376 3378 3379	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 10 Ser	Glu 15 Ala Thr Ser Ile 1578 Ala Cys Thr	Asp Ile Gly Trp 1576 Val Thr Glu Tyr	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583	Thr 1573 Val 50 Pro Lys Ala Gln 1581 Asn	His 1572 Leu 35 Lys Pro Arg 1580 Phe Ser	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583	Val Val Val S5 Gly Thr Lys Ala 1582 Val	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn	Asn Lys Asp Ser 1577 Trp Arg Arg	Pro Ser 15760 Ile 5 Gln Leu Tyr Pro 15840
E> E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 10 Ser Val	Glu 15 Ala Thr Ser Ile 1578 Ala 5 Cys Thr	Asp Ile Gly Trp 1576 Val 30 Thr Glu Tyr	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro	Thr 1573 Val 50 Pro Lys Ala Gln 1581 Asn 80 Pro	His 1572 Leu 35 Lys Pro Arg 1580 Phe 5 Ser	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg Glu Thr	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val	Val Val Val S Gly Thr Lys Ala 1582 Val	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn Gln Leu	Asn Lys Asp Ser 1577 Trp Arg Arg Tyr Ser	Pro Ser 15760 Ile 5 Gln Leu Tyr Pro 15840 Ser
E> E> E> E> E>	3364 3365 3366 3367 3368 3379 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 10 Ser Val	Glu 15 Ala Thr Ser Ile 1578 Ala Cys Thr Pro	Asp Ile Gly Trp 1576 Val 30 Thr Glu Tyr Gly 1584	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro	Thr 1573 Val 60 Pro Lys Ala Gln 1581 Asn 80 Pro	His 1572 Leu 35 Lys Pro Arg Arg 1580 Phe 15 Ser	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg Glu Thr	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro Pro 1585	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val	Val Val Val S5 Gly Thr Lys Ala 1582 Val	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn Gln Leu	Asn Lys Asp Ser 1577 Trp O Arg Arg Tyr Ser 1585	Pro Ser 15760 Ile 75 Gln Leu Tyr Pro 15840 Ser
E> E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe Arg	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys Asp	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser Val	Glu 15 Ala Thr Ser Ile 1578 Ala Cys Thr Pro Met	Asp Ile Gly Trp 1576 Val O Thr Glu Tyr Gly 1584 Glu	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro Val	Thr 1573 Val 60 Pro Lys Ala Gln 1581 Asn 80 Pro Gln	His 1572 Leu 35 Lys Pro Arg 1580 Phe 5 Ser Gly	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg Glu Thr Asn	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro Pro 1585 Glu	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val O Pro	Val Val Val S5 Gly Thr Lys Ala 1582 Val Val	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr Ser	Thr 25 Asp Ala Ser Thr 1579 Cys Asn Gln Leu Asp	Asn Lys Asp Ser 1577 Trp O Arg Arg Tyr Ser 1585 Gly	Pro Ser 15760 Ile 75 Gln Leu Tyr Pro 15840 Ser
E> E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376 3377 3378 3379 3380 3381 3382 3383	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe Arg	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys Asp	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser Val	Glu 15 Ala Thr Ser Ile 1578 Ala Cys Thr Pro Met 1586	Asp Ile Gly Trp 1576 Val Thr Glu Tyr Gly 1584 Glu 50	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro Val	Thr 1573 Val 50 Pro Lys Ala Gln 1581 Asn O Pro Gln	His 1572 Leu 35 Lys Pro Arg 1580 Phe Ser Gly Trp	Tyr 20 Asn Met Lys Asp 1578 Thr 0 Arg Glu Thr Asn 1586	Val Val Asp Tyr 1577 Thr S Thr Ile Pro Pro Glu 55	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val O Pro	Val 1574 Val Val 55 Gly Thr Lys Ala 1582 Val Val Ile	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr	Thr 25 Asp Ala Ser Thr 1579 Cys Asn Gln Leu Asp 1587	Asn Lys Asp Ser 1577 Trp Arg Arg Arg Gly 0	Pro Ser 15760 Ile 5 Gln Leu Tyr Pro 15840 Ser 5 Gly
E> E> E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3374 3375 3376 3376 3377 3378 3379 3380 3381 3382 3383 3384	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe Arg Ser	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys Asp Arg	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser Val Ser	Glu 15 Ala Thr Ser Ile 1578 Ala 5 Cys Thr Pro Met 1586 Ile	Asp Ile Gly Trp 1576 Val O Thr Glu Tyr Gly 1584 Glu O Gly	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro Val Tyr	Thr 1573 Val 60 Pro Lys Ala Gln 1581 Asn 80 Pro Gln His	His 1572 Leu 35 Lys Pro Arg 1580 Phe 15 Ser Gly Trp Leu	Tyr 20 Asn Met Lys Asp 1578 Thr 0 Arg Glu Thr Asn 1586 Glu	Val Val Asp Tyr 1577 Thr S Thr Ile Pro Pro 1585 Glu S Arg	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val i0 Pro Lys	Value	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr Ser Arg	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn Gln Leu Asp 1587 Asn	Asn Lys Asp Ser 1577 Trp Arg Arg Arg Gly 0	Pro Ser 15760 Ile 5 Gln Leu Tyr Pro 15840 Ser 5 Gly
E> E> E> E> E>	3364 3365 3366 3367 3368 3369 3371 3372 3373 3374 3375 3376 3377 3378 3379 3381 3381 3382 3383 3384 3385	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe Arg Ser	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys Asp Arg	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser Val Ser Val	Glu 15 Ala Thr Ser Ile 1578 Ala 5 Cys Thr Pro Met 1586 Ile 75	Asp Ile Gly Trp 1576 Val 30 Thr Glu Tyr Gly 1584 Glu 60 Gly	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro Val Tyr	Thr 1573 Val 60 Pro Lys Ala Gln 1581 Asn 30 Pro Gln His	His 1572 Leu 35 Lys Pro Arg Arg 1580 Phe 5 Ser Gly Trp Leu 1588	Tyr 20 Asn Met Lys Asp 1578 Thr 00 Arg Glu Thr Asn 1586 Glu 30	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro Pro 1585 Glu 65 Arg	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val O Pro Lys	Val Val Val Val Thr Lys Ala 1582 Val Val Ile Glu	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr Ser Arg 1588	Thr 25 Asp Ala Ser Thr 1579 Cys 5 Asn Gln Leu Asp 1587 Asn	Asn Lys Asp Ser 1577 Trp O Arg Arg Tyr Ser 1585 Gly O Ser	Pro Ser 15760 Ile 75 Gln Leu Tyr Pro 15840 Ser 55 Gly Ile
E> E> E> E> E> E>	3364 3365 3366 3367 3368 3370 3371 3372 3373 3376 3376 3377 3378 3379 3380 3381 3382 3383 3384 3385 3386	Ala Ala Gly 1574 Ile Asn Ile Lys Gly 1582 Phe Arg Ser Leu	Cys Gly 1573 Pro 15 Thr Asn Val Thr 1583 Lys Lys Asp Arg Trp	Arg 1571 Glu 30 Pro Leu Tyr Ser 1579 Gly 0 Ser Val Ser Val 1587 Val	Glu 15 Ala Thr Ser Ile 1578 Ala 5 Cys Thr Pro Met 1586 Ile 75 Lys	Asp Ile Gly Trp 1576 Val Thr Glu Tyr Gly 1584 Glu Gly Leu	Val Glu Pro 1575 Gly 55 Glu Val Tyr Leu 1583 Pro Val Tyr Asn	Thr 1573 Val 60 Pro Lys Ala Gln 1581 Asn 60 Pro Gln His	His 1572 Leu 35 Lys Pro Arg 1580 Phe 5 Ser Gly Trp Leu 1588 Thr	Tyr 20 Asn Met Lys Asp 1578 Thr 0 Arg Glu Thr Asn 1586 Glu 0 Pro	Val Val Asp Tyr 1577 Thr S5 Thr Ile Pro Pro 1585 Glu 55 Arg Ile	Val Ile Glu 1575 Asp O Ser Ile Ala Thr 1583 Val O Pro Lys Pro	Val 1574 Val Val 55 Gly Thr Lys Ala 1582 Val Val Ile Glu Gln	Leu 1572 Leu 10 Thr Gly Thr Ala 1580 Glu 20 Ala Thr Ser Arg 1588 Thr	Thr 25 Asp Ala Ser Thr 1579 Cys Asn Gln Leu Asp 1587 Asn Stys	Asn Lys Asp Ser 1577 Trp O Arg Arg Tyr Ser 1585 Gly O Ser	Pro Ser 15760 Ile 75 Gln Leu Tyr Pro 15840 Ser 55 Gly Ile

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	3388																
E>	3389																15920
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E>	3391					1592	25				1593	30				1593	35
	3392	Val	Ala	Arg	Asp	Pro	Cys	Asp	Pro	Pro	Gly	Arg	Pro	Glu	Ala	Ile	Ile
E>	3393				1594	10				1594	4 5				1595	50	
	3394																Asp
E>	3395			_							_	_	_			-4	•
	3396															Leu	Pro
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E>	3405				35											_	_,
	3406	_			_	_	-							-	Glu	Ser	Phe
E>	3407																
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E>	3409	1606	55				160	70				1607	75				16080
•	3410	Ile	Lys	Gly	Asp	Gln	Glu	Leu	Ser	Asn	Thr	Ala	Arg	Leu	Glu	Ile	Lys
E>	3411															1609	
	3412	Ser	Thr	Asp	Phe	Ala	Thr	Ser	Leu	Ser	Val	Lys	Asp	Ala	Val	Arg	Val
E>	3413				1610	00				1610)5				1611	LO	
	3414														Gly	Glu	Arg
E>	3415	_				•								1612			_
	3416													Gly	Pro	Pro	Glu
E>	3417							_	35			_		-			
_	3418	Glv												Cvs	Thr	Leu	Ala
E>	3419	-						_					_	- 3			16160
	3420																
E>	3421	-	-					-	o _± j	_		_				1617	
- /	3422																
₽>	3423			_	1618				_			110			1619	-	1114
H /	3424																Δen
E>	3425				95			_	-			_		1620		Ory	HJII
E/	3425															C155	Clu
			-										1622		vат	GŢŽ	GIU
ピーーン	3427-				0				15					-	tra 1	77-1	Dwa
	3428										_						
E>	3429								1					.			16240
	3430	-			_										_		
E>	3431													_		1625	_
					-												Leu .
E>	3433														1627	-	_
		~ -	CP		-	~ 1 · ·	T -	70	71	T	\sim 1	~1	T 1 _	71	TT	$m_{P} \sim$	Ara
	3434	_	**				-	_	-	_		_		_	-	TIIT	9
E>	3435	_	-	162	75		_		1628	30		_		1628	35		_
E>		_	-	162	75		_		1628	30		_		1628	35		_

E>	3437		162	90				162	95				163	00			
															Asn	Ala	Ala
E>							_			-							16320
	3440																
E>	3441													4			_
	3442																
E>	3443															_	
	3444																Glv
E>	3445														-	•	4
	3446															Asn	Val
E>	3447												-				
	3448													Asn	Lys	Thr	Asn
E>	3449											_			-		16400
	3450																Ile
E>	3451									_			_			1641	
	3452															Pro	Gly
E>	3453				1642	20				1642	25			_	1643	30	-
	3454	Pro	Ile	Ile	Val	Glu	Glu	Lys	Leu	Glu	Ala	Pro	Asp	Ile	Asp	Leu	Asp
E>	3455			1643	35				1644	10				1644	45		
	3456	Leu	Glu	Leu	Arg	Lys	Ile	Ile	Asn	Ile	Arg	Ala	Gly	Gly	Ser	Leu	Arg
E>	3457		1645	50				1645	55				164	60			
							_	_	-							_	Gly
E>	3459	1646	55				164	70				1647	75				16480
	3460																
E>	3461					1648	35				1649	90				1649	95
	3462								_				_	_	Asp	Ser	Gly
E>	3463														1651		
	3464		_									_		-		Ala	Phe
E>	3465																
	3466							_							Asn	Leu	Lys
E>	3467												1654				
	3468													_			
E>	3469																16560
	3470			-	_	_		_		_		_				-	-
E>	3471															1657	
=== =	3472				_	_		-							-		Lys
F:>	3473														1659	_	 1
	3474			_	_		_					-	_		_	Tyr	Phe
E>	3475			1659												~ 3	e=1
	3476	_							-	_		-			Ala	GIņ	Thr
E>	3477												1662		G 1	_	
	3478		_												-	_	
E>	3479													0			16640
-	3480			_	-			-							-		-
E>		D					15 Class							T 1.		1665	
73 -	3482				_	_	_		_				_				мет
近 ~ >	3483						Clu								1667	_	Cárs
E>	3484			_					-			_		_		-	
5>	3403			T00	, 5				TOOC	, (T 0 0 0	Ü		

	3486	Leu	Gln	Ala	Val	Ile	Thr	Asn	Leu	Thr	Gln	Gly	Glu	Glu	Tyr	Leu	Phe
E>	3487		166	90				1669	95				1670	00			
	3488	Arg	Val	Val	Ala	Val	Asn	Glu	Lys	Gly	Arg	Ser	Asp	Pro	Arg	Ser	Leu
E>	3489	1670	05				167	10				167	15				16720
	3490	Ala	Val	Pro	Ile	Val	Ala	Lys	Asp	Leu	Val	Ile	Glu	Pro	Asp	Val	Lys
E>	3491					1672	25				1673	30				1673	35
	3492	Pro	Ala	Phe	Ser	Ser	Tyr	Ser	Val	Gln	Val	Gly	Gln	Asp	Leu	Lys	
E>	3493				1674	10				1674	45				1675	50	
	3494	Glu	Val	Pro	Ile	Ser	Gly	Arg	Pro	Lys	Pro	Thr	Ile	Thr	Trp	Thr	Lys
E>	3495			1675	55				167	60				1676	55		
	3496	Asp	Gly	Leu	Pro	Leu	Lys	Gln	Thr	Thr	Arg	Ile	Asn	Val	Thr	Asp	Ser
E>	3497																
	3498																
E>																	16800
	3500										Val	Val	Gly	Gln	Lys	Thr	Ala
E>	3501																
	3502								_	_		_			Lys	Gly	Pro
E>	3503										25				1683		
	3504		_		_	_										Trp	Asn
E>	3505													1684			
	3506														Ile	Val	Gln
E>	3507																
	3508										-						
E>	3509																16880
	3510	Ala	/\ ~~ ~~	117 10 00												~ ~ ~ ~	
			_				Lys			-		•		_			4
E>	3511		_			1688	35			-	1689	90 ⁻		-		1689	95
	3511 3512	Gln	Phe	Arg	Ile	1688 Phe	35 Ala	Glu	Asn	Arg	1689 Tyr	Gly	Gln	Ser	Phe	168 9	95
	3511 3512 3513	Gln	Phe	Arg	Ile 169 0	1688 Phe 00	85 Ala	Glu	Asn	Arg 1690	1689 Tyr 05	Gly	Gln	Ser	Phe 169 1	168 9 Ala LO	95 Leu
E>	3511 3512 3513 3514	Gln Glu	Phe	Arg Asp	Ile 169 0 Pro	1688 Phe 00 Ile	35 Ala Val	Glu Ala	Asn Gln	Arg 1690 Tyr	1689 Tyr)5 Pro	Gly Tyr	Gln Lys	Ser Glu	Phe 169 1 Pro	168 9 Ala LO	95 Leu
E>	3511 3512 3513 3514 3515	Gln Glu	Phe Ser	Arg Asp 1691	Ile 169 0 Pro	1688 Phe 00 Ile	35 Ala Val	Glu Ala	Asn Gln 1692	Arg 1690 Tyr 20	1689 Tyr)5 Pro	Gly Tyr	Gln Lys	Ser Glu 1692	Phe 169 1 Pro	1689 Ala LO Gly	Leu Pro
E>	3511 3512 3513 3514 3515 3516	Gln Glu Pro	Phe Ser Gly	Arg Asp 1691 Thr	Ile 1690 Pro Pro	1688 Phe 00 Ile	Ala Val	Glu Ala Thr	Asn Gln 1692 Ala	Arg 1690 Tyr 20 Ile	Tyr 5 Pro	Gly Tyr Lys	Gln Lys Asp	Ser Glu 1692 Ser	Phe 169 1 Pro	1689 Ala LO Gly	Leu Pro
E>	3511 3512 3513 3514 3515 3516 3517	Gln Glu Pro	Phe Ser Gly 1693	Arg Asp 1691 Thr	Ile 1690 Pro 5 Pro	1688 Phe 00 Ile Phe	Ala Val Ala	Glu Ala Thr 1693	Asn Gln 1692 Ala 35	Arg 1690 Tyr 20 Ile	Tyr)5 Pro Ser	Gly Tyr Lys	Gln Lys Asp 169 4	Ser Glu 1692 Ser	Phe 1691 Pro 25 Met	1689 Ala LO Gly Val	Leu Pro Ile
E> E>	3511 3512 3513 3514 3515 3516 3517 3518	Gln Glu Pro Gln	Phe Ser Gly 1693 Trp	Arg Asp 1691 Thr 30 His	Ile 1690 Pro 5 Pro	Phe Ile Phe	Ala Val Ala Val	Glu Ala Thr 1693 Asn	Asn Gln 1692 Ala 35 Asn	Arg 1690 Tyr 20 Ile	Tyr 5 Pro Ser	Gly Tyr Lys Ser	Gln Lys Asp 169 4 Pro	Ser Glu 1692 Ser Val	Phe 1691 Pro 25 Met	Ala Ala O Gly Val	Leu Pro Ile Tyr
E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519	Gln Glu Pro Gln 1694	Phe Ser Gly 1693 Trp	Arg Asp 1691 Thr O His	Ile 1690 Pro 5 Pro	Phe O Ile Phe Pro	Ala Val Ala Val 1695	Glu Ala Thr 1693 Asn	Asn Gln 1692 Ala 35 Asn	Arg 1690 Tyr 20 Ile	Tyr 5 Pro Ser	Gly Tyr Lys Ser 1695	Gln Lys Asp 1694 Pro	Ser Glu 1692 Ser Val	Phe 1691 Pro 25 Met	Ala Ala O Gly Val	Leu Pro Ile Tyr 16960
E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520	Gln Glu Pro Gln 1694 His	Phe Ser Gly 1693 Trp 15 Leu	Arg Asp 1691 Thr 30 His	Ile 1690 Pro 5 Pro Glu Arg	Phe Phe Pro Lys	Ala Val Ala Val Glu	Glu Ala Thr 1693 Asn 60 Arg	Asn Gln 1692 Ala 35 Asn Asn	Arg 1690 Tyr 20 Ile Gly Ser	Tyr 5 Pro Ser Gly	Gly Tyr Lys Ser 1695	Gln Lys Asp 1694 Pro 55	Ser Glu 1692 Ser 10 Val	Phe 1691 Pro 5 Met Ile	Ala Ala O Gly Val Gly Val	Leu Pro Ile Tyr 16960 Asn
E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521	Gln Glu Pro Gln 1694 His	Phe Ser Gly 1693 Trp 15 Leu	Arg Asp 1691 Thr 30 His	Ile 1690 Pro Pro Glu	Phe Phe Pro Lys	Ala Val Ala Val Glu 55	Glu Ala Thr 1693 Asn 50 Arg	Asn Gln 1692 Ala 35 Asn Asn	Arg 1690 Tyr 20 Ile Gly Ser	Tyr 5 Pro Ser Gly Ile 1697	Gly Tyr Lys Ser 1695 Leu	Gln Lys Asp 1694 Pro 55 Trp	Ser Glu 1692 Ser 10 Val	Phe 1691 Pro 5 Met Ile Lys	Ala Ala O Gly Val Gly Val 1697	Leu Pro Ile Tyr 16960 Asn
E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522	Gln Glu Pro Gln 1694 His	Phe Ser Gly 1693 Trp 15 Leu Thr	Arg Asp 1691 Thr 30 His Glu Ile	Ile 1690 Pro 5 Pro Glu Arg	Phe Phe Pro Lys His	Ala Val Ala Val Glu Asp	Glu Ala Thr 1693 Asn O Arg	Asn Gln 1692 Ala 35 Asn Asn Gln	Arg 1690 Tyr 20 Ile Gly Ser Phe	Tyr 5 Pro Ser Gly Ile 1697 Lys	Gly Tyr Lys Ser 1695 Leu 0 Ala	Gln Lys Asp 1694 Pro 55 Trp Gln	Ser Glu 1692 Ser 10 Val Thr	Phe 1691 Pro 5 Met Ile Lys Leu	Ala Ala O Gly Val Gly Val Gly Cal	Leu Pro Ile Tyr 16960 Asn
E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523	Gln Glu Pro Gln 1694 His	Phe Ser Gly 1693 Trp Leu Thr	Arg Asp 1691 Thr 30 His Glu Ile	Ile 1690 Pro 5 Pro Glu Arg Ile 1698	Phe Pro Lys His	Ala Val Ala Val Glu Asp	Glu Ala Thr 1693 Asn O Arg	Asn Gln 1692 Ala S5 Asn Asn Gln	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698	Tyr 5 Pro Ser Gly Ile 1697 Lys	Gly Tyr Lys Ser 1695 Leu 0 Ala	Gln Lys Asp 1694 Pro 55 Trp Gln	Ser Glu 1692 Ser Val Thr	Phe 1691 Pro 25 Met Ile Lys Leu 1699	Ala Ala O Gly Val Gly Val Gly Glu O O	Leu Pro Ile Tyr 16960 Asn 5
E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524	Gln Glu Pro Gln 1694 His Lys Gly	Phe Ser Gly 1693 Trp Leu Thr	Arg Asp 1691 Thr 30 His Glu Ile Glu	Ile 1690 Pro 5 Pro Glu Arg Ile 1698 Tyr	Phe Pro Lys His Glu	Ala Val Ala Val 1699 Glu Asp Phe	Glu Ala Thr 1693 Asn O Arg Thr Arg	Asn Gln 1692 Ala S5 Asn Asn Gln Val	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698	Tyr 5 Pro Ser Gly Ile 1697 Lys Ala	Gly Tyr Lys Ser 1695 Leu O Ala	Gln Lys Asp 1694 Pro 55 Trp Gln Asn	Ser Glu 1692 Ser 10 Val Thr Asn	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val	Ala Ala O Gly Val Gly Val Gly Glu O O	Leu Pro Ile Tyr 16960 Asn 5
E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525	Gln Glu Pro Gln 1694 His Lys Gly	Phe Ser Gly 1693 Trp Leu Thr	Arg Asp 1691 Thr 30 His Glu Ile Glu 1699	Ile 1690 Pro 5 Pro Glu Arg Ile 1698 Tyr	Phe Pro Lys 1696 Glu	Ala Val Ala Val Glu Asp Phe	Glu Ala Thr 1693 Asn O Arg Thr Arg	Asn Gln 1692 Ala 35 Asn Asn Gln Val 1700	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr	Tyr 5 Pro Ser Gly Ile 1697 Lys Ala	Gly Tyr Lys Ser 1695 Leu 0 Ala Glu	Gln Lys Asp 1694 Pro 55 Trp Gln Asn	Ser Glu 1692 Ser 10 Val Thr Asn Ile 1700	Phe 1691 Pro 5 Met Lys Leu 1699 Val	Ala Ala Gly Val Gly Val Gly Glu Glu Gly	Leu Pro Ile Tyr 16960 Asn 5 Glu Val
E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526	Gln Glu Pro Gln 1694 His Lys Gly Gly	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys	Arg Asp 1691 Thr 30 His Glu Ile Glu 1699 Ala	Ile 1690 Pro 5 Pro Glu Arg Ile 1698 Tyr 5	Phe Pro Lys 1696 Glu Lys	Ala Val Ala Val 1699 Glu Asp Phe Asn	Glu Ala Thr 1693 Asn O Arg Thr Arg	Asn Gln 1692 Ala 35 Asn Asn Gln Val 1700 Glu	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr 00 Cys	Tyr Tyr Ser Gly Ile 1697 Lys Ala Tyr	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val	Gln Lys Asp 1694 Pro 55 Trp Gln Asn Ala	Ser Glu 1692 Ser 10 Val Thr Asn Ile 1700 Arg	Phe 1691 Pro 5 Met Lys Leu 1699 Val	Ala Ala Gly Val Gly Val Gly Glu Glu Gly	Leu Pro Ile Tyr 16960 Asn 5 Glu Val
E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527	Gln Glu Pro Gln 1694 His Lys Gly Gly	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1701	Arg Asp 1691 Thr O His Glu Ile Glu 1699 Ala	Ile 1690 Pro 5 Pro Glu Arg Ile 1698 Tyr 5 Ser	Phe Pro Lys His Glu Lys	Ala Val Ala Val 1695 Glu Asp Phe Asn	Glu Ala Thr 1693 Asn O Arg Thr Arg Ser 1701	Asn Gln 1692 Ala 35 Asn Asn Gln Val 1700 Glu	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr 00 Cys	Tyr Tyr Ser Gly Ile 1697 Lys Ala Tyr	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val	Gln Lys Asp 1694 Pro 55 Trp Gln Asn Ala 1702	Ser Glu 1692 Ser 10 Val Thr Asn Ile 1700 Arg	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val 5 Asp	Ala Ala O Gly Val Gly Val 1697 Glu O Gly Pro	Leu Pro Ile Tyr 16960 Asn Glu Val Cys
E> E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526	Gln Glu Pro Gln 1694 His Lys Gly Gly Asp	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1701 Pro	Arg Asp 1691 Thr O His Glu Ile Glu 1699 Ala O Pro	Ile 1690 Pro S Pro Glu Arg Ile 1698 Tyr S Ser Gly	Phe Phe Pro Lys 1696 His Glu Lys Thr	Ala Val Ala Val 1695 Glu Asp Phe Asn Pro	Glu Ala Thr 1693 Asn O Arg Thr Arg Glu Glu	Asn Gln 1692 Ala 35 Asn Asn Gln Val 1700 Glu 5 Pro	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr 00 Cys Ile	Tyr 5 Pro Ser Gly Ile 1697 Lys Ala Tyr Met	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val	Gln Lys Asp 1694 Pro 55 Trp Gln Asn Ala 1702 Lys	Ser Glu 1692 Ser Val Thr Asn Ile 1700 Arg	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val Asp Asn	Ala Ala O Gly Val Gly Val 1697 Glu O Gly Pro	Leu Pro Ile Tyr 16960 Asn Glu Val Cys
E> E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528	Gln Glu Pro Gln 1694 His Lys Gly Gly Asp 1702	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1701 Pro	Arg Asp 1691 Thr O His Glu Ile Glu 1699 Ala 10 Pro	Ile 1690 Pro Glu Arg Ile 1698 Tyr Ser Gly	Phe Pro Lys 1696 His Glu Lys Thr	Ala Val Ala Val Ala Val A695 Glu Asp Phe Asn Pro 1703	Glu Ala Thr 1693 Asn 60 Arg Thr Arg Ser 1701 Glu 30	Asn Gln 1692 Ala 35 Asn Asn Gln Val 1700 Glu 15 Pro	Arg 1690 Tyr 0 Ile Gly Ser Phe 1698 Tyr 0 Cys Ile	Tyr Tyr Ser Gly Ile 1697 Lys Ala Tyr Met	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val Val 1703	Gln Lys Asp 1694 Pro 5 Trp Gln Asn Ala 1702 Lys	Ser Glu 1692 Ser Val Thr Asn Ile 1700 Arg	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val Asp Asn	Ala Ala O Gly Val Gly Val 1697 Glu O Gly Pro	Leu Pro Ile Tyr 16960 Asn 5 Glu Val Cys Ile 17040
E> E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3520 3521 3522 3523 3524 3525 3526 3527 3528 3529	Gln Glu Pro Gln 1694 His Lys Gly Gly Asp 1702 Thr	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1703 Pro 25 Leu	Arg Asp 1691 Thr O His Glu 1699 Ala O Pro Gln	Ile 1690 Pro Glu Arg Ile 1698 Tyr Ser Gly Trp	Phe Pro Lys 1696 His Glu Lys Thr	Ala Val Ala Val Ala Val Ala Solu Asp Phe Asn Pro 1703 Lys	Glu Ala Thr 1693 Asn 60 Arg Thr Arg Ser 1701 Glu 30	Asn Gln 1692 Ala 35 Asn Gln Val 1700 Glu 15 Pro Val	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr 00 Cys Ile	Tyr Tyr Ser Gly Ile 1697 Lys Ala Tyr Met Asp	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val Val 1703 Gly	Gln Lys Asp 1694 Pro 5 Trp Gln Asn Ala 1702 Lys Gly	Ser Glu 1692 Ser Val Thr Asn Ile 1700 Arg O Arg	Phe 1691 Pro 25 Met Lys Leu 1699 Val Asp Asn Met	Ala Ala O Gly Val Gly Val 1697 Glu O Gly Pro	Leu Pro Ile Tyr 16960 Asn 5 Glu Val Cys Ile 17040 Thr
E> E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3519 3520 3521 3522 3523 3524 3525 3526 3527 3528 3529 3530	Gln Glu Pro Gln 1694 His Lys Gly Gly Asp 1702 Thr	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1701 Pro 25 Leu	Arg Asp 1691 Thr O His Glu 1699 Ala 10 Pro Gln	Ile 1690 Pro 5 Pro Glu Arg Ile 1698 Tyr Ser Gly Trp	Phe Pro Lys 1696 His Glu Lys Thr 1704	Ala Val Ala Val Ala Val Asp Phe Asn Pro 1703 Lys	Glu Ala Thr 1693 Asn O Arg Thr Arg Ser 1701 Glu O Pro	Asn Gln 1692 Ala 35 Asn Gln Val 1700 Glu 15 Pro Val	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr 0 Cys Ile	Tyr Ser Gly Ile 1697 Lys Ala Tyr Met Asp 1705	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val Val 1703 Gly	Gln Lys Asp 1694 Pro 55 Trp Gln Asn Ala 1702 Lys Gly	Ser Glu 1692 Ser Val Thr Asn Ile 1700 Arg Arg Ser	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val Asp Asn Met	Ala Ala O Gly Val Gly Val 1697 Glu O Gly Pro Glu Ile 1705	Leu Pro Ile Tyr 16960 Asn 5 Glu Val Cys Ile 17040 Thr
E> E> E> E> E> E> E>	3511 3512 3513 3514 3515 3516 3517 3518 3520 3521 3522 3523 3524 3525 3526 3527 3528 3528 3529 3530 3531	Gln Glu Pro Gln 1694 His Lys Gly Gly Asp 1702 Thr	Phe Ser Gly 1693 Trp 15 Leu Thr Ile Lys 1701 Pro 25 Leu Tyr	Arg Asp 1691 Thr O His Glu 1699 Ala O Pro Gln Ile	Ile 1690 Pro S Pro Glu Arg Ile 1698 Tyr Ser Gly Trp Val 1706	Phe Pro Lys 1696 His O Glu Lys Thr Thr 1704 Glu 50	Ala Val Ala Val Ala Val Ala Fro Asn Pro 1703 Lys Lys	Glu Ala Thr 1693 Asn O Arg Thr Arg Ser 1701 Glu O Pro Arg	Asn Gln 1692 Ala 35 Asn Gln Val 1700 Glu 15 Pro Val Asp	Arg 1690 Tyr 20 Ile Gly Ser Phe 1698 Tyr O Cys Ile Tyr Leu 1706	Tyr Ser Gly Ile 1697 Lys Ala Tyr Met Asp 1705 Pro 55	Gly Tyr Lys Ser 1695 Leu O Ala Glu Val 1703 Gly O Asp	Gln Lys Asp 1694 Pro 5 Trp Gln Asn Ala 1702 Lys Gly Gly	Ser Glu 1692 Ser Val Thr Asn Ile 1700 Arg O Arg Ser Arg	Phe 1691 Pro 25 Met Ile Lys Leu 1699 Val 5 Asp Asn Met Trp 1707	Ala Ala O Gly Val Gly Val Gly Pro Glu Ile 1705 Met	Leu Pro Ile Tyr 16960 Asn 5 Glu Val Cys Ile 17040 Thr 5 Lys

E>	3535			170	75				170	30				1708	35		
	3536															Ala	Ala
E>	3537			_		_	_			_				-			
	3538													Ile	Thr	Ala	Lvs
E>																	17120
	3540	-															
E>	3541	_						_				_		_		_	_
	3542																
E>								-				_				_	
	3544																Glu
E>	3545															-4	
	3546															Lys	Ala
E>	3547															4	
	3548														Gln	Tyr	Ile
E>						_				-		_	_	_		_	17200
	3550																
E>	3551		_						_		_						
																	Thr
E>	3553	_			_	_		_				_					
	3554																Gln
E>	3555	_					_	_				_					
	3556															Glu	Thr
E>															-		
	3558													Val	Thr	Asn	Ser
E>			_			-											17280
	3560																
E>	3561		_			_				_			_			_	
	3562																Pro
E>	3563							_							173:		
	3564														Lys	Ser	Leu
E>	3565				_				-			_					
	3566															Asn	Arg
E>	3567		1733	30				1733	35		•		1734	10	_		_
	3568												Tyr	Ile	Val	Glu	Lys
E>	3569	1734	15			_	173	50				173	55				17360
	3570	Arg	Asp	Arg	Ser	Gly	Ile	Arg	Trp	Ile	Lys	Cys	Asn	Lys	Arg	Arg	Ile
E>	3571					173	65				1737	70				1737	75
	3572	Thr	Asp	Leu	Arg	Leu	Arg	Val	Thr	Gly	Leu	Thr	Glu	Asp	His	Glu	Tyr
E>	3573		Δ.		1738	30				1738	35			-	1739	90	A
	3574	Glu	Phe	Arg	Val	Ser	Ala	Glu	Asn	Ala	Ala	Gly	Val	Gly	Glu	Pro	Ser
E>	3575			1739	95				1740	00				1740)5		
	3576	Pro	Ala	Thr	Val	Tyr	Tyr	Lys	Ala	Cys	Asp	Pro	Val	Phe	Lys	Pro	Gly
E>	3577		174	10				1743	15				1742	20			
	3578							Ile	Val	Asp	Thr	Thr	Lys	Asn	Ser	Ile	Thr
E>	3579	1742	25				1743	30				1743	35				17440
	3580											Gly	Ser	Glu	Ile	Leu	Gly
E>		•		_	_	_			_	_		_					_
	3582	Tyr	Val	Val								Glu	Glu	Trp	Gln	Ile	Val
E>	3583				174	50				174	65				174	70	

	2504	m L	D	C1	m 1	C1	T	71	57a]	ш ь	71	Dh.	C1	T1 -	0	T	T
-	3584					_		_			_					ьуs	Leu
正>		mh		1747										1748		7	77.]
-	3586						-	_		_		-			ASII	глх	vai
E>				90					95				1750		Dwo	C1	7
п 、	3588	_		_							_			_			~
ビーーン	3589								7 ~~						7		17520
	3590	тАг	neu	GIU	Ald						-				-	_	_
E>		T 3 o	V-1	17-1	7 ~~				C02					T10		1753	
TP: - >	3592	TTE	vaı	Val	-		-	_			_						гÃ2
E>		C1	7 ~~	Dwo				Tla				71 ~~ ~~			1755		Dho
E>	3594	-	_							-		_		1756	_	GIU	File
ピーーン		መኤኤ		1755								7.05			_	Τ ο	Con
TP \	3596		-	-					-	_			1758		GIII	ьeu	ser
E>				70					75					_	Tau	T	Ton
17	3598		_		_	-	_		_		_	_	_			-	17600
E>	3599								Sor						Tura		
₩	3600					_		_						AgT	_	1761	
E>				D×0					7\ = 2								
E>	3602	-			_				ASII				-		1763	_	гуз
B>	3604																Λla
E>		_		1763				_						1764	_	GTÅ	MIG
E>	3606															Luc	ΔΊα
F>		_		_		_			_	-	-		1766		лгу	ъуs	NIG
F>	3607 3608								55 Cvs						T.vc	Val	Glu
F>	3609	-						-	Cys		_				туу		17680
	3610																
E>		11011	#			_			- 1 -	-		_		1100		1769	
	3612	Glu	Phe	Glv	Val.												
E>		024		_		_							-		1771	_	
	3614														_	-	Ser
E>					15				_	_				1772	_		
	3616	Gln	Thr													Glv	Glv
E>				30					35				1774			4	• •
	3618	Ser											Pro	Lys	Gly	Thr	Glu
E>			_			_	_							_	_		17760
	3620	Lys	Trp	Ser	Ile	Val	Ala	Glu	Ser	Lys	Val	Cys	Asn	Ala	Val	Val	Thr
E>		-	_							-		-				1777	
	3622	Gly	Leu	Ser	Ser	Gly	Gln	Glu	Tyr	Gln	Phe	Arg	Val	Lys	Ala	Tyr	Asn
E>	3623	_			1778	30			_	1778	35				1779	90	
	3624	Glu	Lys	Gly	Lys	Ser	Asp	Pro	Arg	Val	Leu	Gly	Val	Pro	Val	Ile	Ala
E>	3625		_	1779	95 [°]		_		1780	00				1780)5		
	3626	Lys	Asp	Leu	Thr	Ile	Gln	Pro	Ser	Leu	Lys	Leu	Pro	Phe	Asn	Thr	Tyr
E>	3627	-	178	10				1783	15				1782	20			
	3628	Ser	Ile	Gln	Ala	Gly	Glu	Asp	Leu	Lys	Ile	Glu	Ile	Pro	Val	Ile	Gly
E>	3629					-											17840
	3630												Gly	Glu	Pro	Leu	Lys
E>	3631															1785	
	3632	Gln	Thr	Thr	Arg	Val	Asn	Val	Glu	Glu	Thr	Ala	Thr	Ser	Thr	Val	Leu

E>	3633				178	60				178	65				178'	70	
_	3634																Thr
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	3636															Tle	Val
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	3638														Asp	Glu	Val
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	3640																
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E>	3645									60			_				
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	3648														Ala	Val	Ile
E>					_	_	_							_			18000
	3650																
E>	3651						_						-			1801	
	3652																
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	3654				Gly	Thr	Lys	Ile	Ile	Gly	Tyr	His	Leu	Glu	Gln	Lys	Glu
E>																•#	
	3656														Ile	Gln	Asp
E>	3657						-		_								•
	3658	Thr	Lys	Phe	Lys	Thr									Tyr	Glu	Phe
E>	3659	180	65				180	70				180	75		_		18080
	3660	Lys	Val	Ser	Ala												Val
E>	3661					1808	35				180	90				1809	95
	3662	Ser	Glu	Cys	Phe	Val	Ala	Arg	Asp	Pro	Cys	Asp	Pro	Pro	Gly	Arg	Pro
E>	3663				1810	00				1810)5				1811	LO	
	3664	Glu	Ala	Ile	Val	Ile	Thr	Arg	Asn	Asn	Val	Thr	Leu	Lys	Trp	Lys	Lys
E>	3665			181:	15				1812	20				1812	25		
	3666	Pro	Ala	Tyr	Asp	Gly	Gly	Ser	Lys	Ile	Thr	Gly	Tyr	Ile	Val	Glu	Lys
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	3680	Asp	Val	Val	Trp		_	Asp	Gly	Lys			Glu	Glu	Thr		
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	3804	Arg	Trp	Leu	Lys	Cys	Asn	Tyr	Thr	Asn	Ile	Gln	Glu	Thr	Tyr	Phe	Glu
E>	3805			1923	35				192	40				1924	15		
	3806	Val	Thr	Glu	Leu	Thr.	Glu	Asp	Gln	Arg	Tyr	Glu	Phe	Arg	Val	Phe	Ala
E>				50									1926				
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	<b>4101</b> 4102	Ala Ile	Trp Lys	Ala Leu	Leu Ile	Ile <b>216</b> 0 Asn	Glu ) <b>5</b> Gly	Asp Asn	Lys Glu	Cys Tyr	Glu 2161 Gln	Ala L <b>O</b> Phe	Gln Arg	Ser Val	Tyr Ser	Thr <b>216</b> Ala	Ala 1 <b>5</b>
E>	<b>4101</b> 4102 <b>4103</b>	Ala Ile	Trp Lys	Ala Leu	Leu Ile 2162	Ile <b>216</b> 0 Asn <b>20</b>	Glu ) <b>5</b> Gly	Asp Asn	Lys Glu	Cys Tyr <b>2162</b>	Glu <b>216</b> 1 Gln <b>25</b>	Ala L <b>O</b> Phe	Gln Arg	Ser Val	Tyr Ser 2163	Thr <b>216</b> 1 Ala <b>30</b>	Ala L <b>5</b> Val
E>	<b>4101</b> 4102 <b>4103</b> 4104	Ala Ile Asn	Trp Lys Lys	Ala Leu Phe	Leu Ile 2162 Gly	Ile 2160 Asn 20 Val	Glu )5 Gly Gly	Asp Asn Arg	Lys Glu Pro	Cys Tyr 2162 Leu	Glu 2161 Gln 25 Asp	Ala LO Phe Ser	Gln Arg Asp	Ser Val Pro	Tyr Ser 2163 Val	Thr <b>216</b> 1 Ala <b>30</b>	Ala L <b>5</b> Val
	<b>4101</b> 4102 <b>4103</b> 4104 <b>4105</b>	Ala Ile Asn	Trp Lys Lys	Ala Leu Phe 2163	Leu Ile <b>2162</b> Gly <b>35</b>	Ile 2160 Asn 20 Val	Glu ) <b>5</b> Gly Gly	Asp Asn Arg	Lys Glu Pro 2164	Cys Tyr <b>2162</b> Leu <b>10</b>	Glu 2161 Gln 25 Asp	Ala L <b>O</b> Phe Ser	Gln Arg Asp	Ser Val Pro 2164	Tyr Ser <b>216</b> 3 Val <b>15</b>	Thr 2161 Ala 30 Val	Ala I <b>5</b> Val Ala
E>	4101 4102 4103 4104 4105 4106	Ala Ile Asn Gln	Trp Lys Lys Ile	Ala Leu Phe 2163 Gln	Leu Ile <b>2162</b> Gly <b>35</b> Tyr	Ile 2160 Asn 20 Val	Glu )5 Gly Gly Val	Asp Asn Arg Pro	Lys Glu Pro 2164 Asp	Tyr 2162 Leu 10 Ala	Glu 2161 Gln 25 Asp	Ala 10 Phe Ser	Gln Arg Asp Ile	Ser Val Pro 2164 Pro	Tyr Ser <b>216</b> 3 Val <b>15</b>	Thr 2161 Ala 30 Val	Ala I <b>5</b> Val Ala
E>	4101 4102 4103 4104 4105 4106 4107	Ala Ile Asn Gln	Trp Lys Lys Ile 2169	Ala Leu Phe 2163 Gln 50	Leu Ile <b>2162</b> Gly <b>35</b> Tyr	Ile 2160 Asn 20 Val Thr	Glu )5 Gly Gly Val	Asp Asn Arg Pro	Lys Glu Pro <b>216</b> 4 Asp	Tyr 2162 Leu 10 Ala	Glu 2161 Gln 25 Asp	Ala I <b>O</b> Phe Ser	Gln Arg Asp Ile 2166	Ser Val Pro 2164 Pro	Tyr Ser <b>216</b> 3 Val <b>15</b> Glu	Thr 2161 Ala 80 Val Pro	Ala I <b>5</b> Val Ala Ser
E> E>	4101 4102 4103 4104 4105 4106 4107 4108	Ala Ile Asn Gln Asn	Trp Lys Lys Ile 2169	Ala Leu Phe 2163 Gln 50 Thr	Ile 2162 Gly 35 Tyr Gly	Ile 2160 Asn 20 Val Thr	Glu )5 Gly Gly Val Ser	Asp Asn Arg Pro 2165 Ile	Lys Glu Pro 2164 Asp 55 Thr	Tyr 2162 Leu 10 Ala Leu	Glu 2161 Gln 25 Asp Pro	Ala O Phe Ser Gly Trp	Gln Arg Asp Ile 2166 Ala	Ser Val Pro 2164 Pro 50 Arg	Ser 2163 Val 5 Glu Pro	Thr 2161 Ala 80 Val Pro	Ala I <b>5</b> Val Ala Ser
E>	4101 4102 4103 4104 4105 4106 4107 4108 4109	Ala Ile Asn Gln Asn 216	Trp Lys Lys Ile 2169 Ile 55	Ala Leu Phe 2163 Gln 50 Thr	Ile 2162 Gly 35 Tyr Gly	Ile 2160 Asn 20 Val Thr	Glu Ser 2167	Asp Asn Arg Pro 2165 Ile	Lys Glu Pro 2164 Asp 55	Tyr 2162 Leu 10 Ala Leu	Glu 2161 Gln 25 Asp Pro	Ala O Phe Ser Gly Trp 2167	Gln Arg Asp Ile 2166 Ala 75	Val Pro 2164 Pro 50 Arg	Ser 2163 Val 5 Glu Pro	Thr 2161 Ala 30 Val Pro	Ala Val Ala Ser Ser 21680
E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110	Ala Ile Asn Gln Asn 2166 Asp	Trp Lys Lys Ile 2169 Ile 65 Gly	Ala Leu Phe 2163 Gln 50 Thr	Leu Ile 2162 Gly 35 Tyr Gly Ser	Ile 2160 Asn 20 Val Thr Asn Glu	Glu )5 Gly Gly Val Ser 2167 Ile	Asp Asn Arg Pro 2165 Ile 70 Gln	Lys Glu Pro 2164 Asp 55 Thr	Tyr 2162 Leu 10 Ala Leu Tyr	Glu 2161 Gln 25 Asp Pro Thr	Ala O Phe Ser Gly Trp 2167	Gln Arg Asp Ile 2166 Ala 5	Ser Val Pro 2164 Pro 50 Arg	Ser 2163 Val 15 Glu Pro Arg	Thr 2161 Ala 30 Val Pro Glu Glu	Ala L5 Val Ala Ser Ser 21680 Lys
E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111	Ala Ile Asn Gln Asn 2166 Asp	Trp Lys Lys Ile 2169 Ile Gly	Ala Leu Phe 2163 Gln Thr Gly	Leu Ile 2162 Gly 35 Tyr Gly Ser	Ile 2160 Asn 20 Val Thr Asn Glu 2168	Glu 5 Gly Gly Val Ser 2167 Ile	Asp Asn Arg Pro 2165 Ile 70 Gln	Lys Glu Pro 2164 Asp 55 Thr	Tyr 2162 Leu 10 Ala Leu Tyr	Glu 2161 Gln 25 Asp Pro Thr Ile 2169	Ala O Phe Ser Gly Trp 2167 Leu O	Gln Arg Asp Ile 2166 Ala 75 Glu	Ser Val Pro 2164 Pro Arg	Ser 2163 Val 15 Glu Pro Arg	Thr 2161 Ala 30 Val Pro Glu 2169	Ala L5 Val Ala Ser Ser 21680 Lys
E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112	Ala Ile Asn Gln Asn 216 Asp	Trp Lys Lys Ile 2169 Ile Gly Ser	Ala Leu Phe 2163 Gln 50 Thr Gly Thr	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp	Glu  5 Gly Gly Val  Ser 216 Ile  7 Val	Asp Asn Arg Pro 2165 Ile 70 Gln Lys	Lys Glu Pro 2164 Asp 55 Thr Gln Val	Tyr 2162 Leu 10 Ala Leu Tyr	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser	Ala O Phe Ser Gly Trp 2167 Leu O Lys	Gln Arg Asp Ile 2166 Ala 75 Glu Arg	Ser Val Pro 2164 Pro Arg Pro	Tyr Ser 2163 Val 45 Glu Pro Arg	Thr 2161 Ala 30 Val Pro Glu Glu 2169 Ser	Ala L5 Val Ala Ser Ser 21680 Lys
E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113	Ala Ile Asn Gln Asn 216 Asp Lys	Trp Lys Lys Ile 2169 Ile Gly Ser	Ala Leu Phe 2163 Gln 50 Thr Gly Thr	Ile 2162 Gly 35 Tyr Gly Ser Arg 2170	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp	Glu  5 Gly Gly Val  Ser 216 Ile  7 Val	Asp Asn Arg Pro 2165 Ile 70 Gln Lys	Lys Glu Pro 2164 Asp 55 Thr Gln Val	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser	Ala O Phe Ser Gly Trp 2167 Leu O Lys	Gln Arg Asp Ile 2166 Ala 75 Glu Arg	Val Pro 2164 Pro Arg Pro	Ser 2163 Val 15 Glu Pro Arg Ile 217	Thr 2161 Ala 30 Val Pro Glu Glu 2169 Ser	Ala IS Val Ala Ser Ser 21680 Lys Glu
E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114	Ala Ile Asn Gln Asn 216 Asp Lys Thr	Trp Lys Lys Ile 2169 Ile 65 Gly Ser Arg	Ala Leu Phe 2163 Gln 50 Thr Gly Thr	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp 00 Val	Glu  5 Gly Gly Val Ser 216 1le 5 Val Thr	Asp Asn Arg Pro 2165 Ile 70 Gln Lys Gly	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser Glu	Ala O Phe Ser Gly Trp 2167 Leu O Lys	Gln Arg Asp Ile 2166 Ala 75 Glu Arg Asn	Ser Val Pro 2164 Pro Arg Arg Pro Glu	Tyr Ser 2163 Val 15 Glu Pro Arg Ile 2173 Tyr	Thr 2161 Ala 30 Val Pro Glu Glu 2169 Ser	Ala IS Val Ala Ser Ser 21680 Lys Glu
E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115	Ala Ile Asn Gln Asn 216 Asp Lys Thr	Trp Lys Lys Ile 2169 Ile Gly Ser Arg	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 2173	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp O Val	Glu  5 Gly Gly Val Ser 216 1le 7 Val Thr	Asp Asn Arg Pro 2165 Ile O Gln Lys Gly	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu	Ala O Phe Ser Gly Trp 2167 Leu O Lys	Gln Arg Asp Ile 2166 Ala 75 Glu Arg Asn	Val Pro 2164 Pro 50 Arg Pro Glu 2172	Tyr Ser 2163 Val 45 Glu Pro Arg Ile 2173 Tyr	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Glu	Ala IS Val Ala Ser Ser 21680 Lys Glu Phe
E> E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116	Ala Ile Asn Gln Asn 216 Asp Lys Thr	Trp Lys Lys Ile 2169 Ile 55 Gly Ser Arg Val	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 2173 Met	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp O Val Glu	Glu  5 Gly Gly Val Ser 216 Ile 5 Val Thr Asn	Asp Asn Arg Pro 2165 Ile 70 Gln Lys Gly Ala	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr 20 Gly	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly	Gln Arg Asp Ile 2166 Ala 75 Glu Arg Asn Pro	Ser Val Pro 2164 Pro 60 Arg Pro Glu 2172 Ala	Tyr Ser 2163 Val 45 Glu Pro Arg Ile 2173 Tyr	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Glu	Ala IS Val Ala Ser Ser 21680 Lys Glu Phe
E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117	Ala Ile Asn Gln Asn 216 Asp Lys Thr	Trp Lys Lys Ile 2169 Ile 55 Gly Ser Arg Val 2173	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 217 Met	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp O Val Glu	Glu  5 Gly Gly Val Ser 216 Ile 5 Val Thr Asn	Asp Asn Arg Pro 2165 Ile 70 Gln Lys Gly Ala 2173	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala 35	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr 20 Gly	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly	Gln Arg Asp Ile 2166 Ala 75 Glu Arg Asn Pro 2176	Val Pro 2164 Pro Arg Arg Pro Glu 2172 Ala	Tyr Ser 2163 Val 45 Glu Pro Arg Ile 2173 Tyr 25 Ser	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Gly	Ala IS Val Ala Ser Ser 21680 Lys Glu Phe Ile
E> E> E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118	Ala Ile Asn Gln Asn 216 Asp Lys Thr His	Trp Lys Lys Ile 2169 Ile 55 Gly Ser Arg Val 217 Arg	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 2173 Met 30 Leu	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala Ile	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp 0 Val Glu Lys	Glu  5 Gly Gly Val Ser 216 1le 5 Val Thr Asn Cys	Asp Asn Arg Pro 2165 Ile O Gln Lys Gly Ala 2173 Arg	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala 55 Glu	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr Co Gly Pro	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly Asn	Arg Asp Ile 2166 Ala 75 Glu Arg Asn Pro 2174 Pro	Val Pro 2164 Pro 30 Arg Pro Glu 2172 Ala 10 Pro	Tyr Ser 2163 Val 15 Glu Pro Arg Ile 2173 Tyr 25 Ser Gly	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Glu Gly Pro	Ala IS Val Ala Ser Ser 21680 Lys Glu Phe Ile Pro
E> E> E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119	Ala Ile Asn Gln Asn 216 Asp Lys Thr His Ser 217	Trp Lys Lys Ile 2169 Ile 65 Gly Ser Arg Val 2170 Arg	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 2173 Met 30 Leu	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala Ile	Ile 2160 Asn 20 Val Thr Asn Glu 2160 Trp Val Glu Lys	Glu  5 Gly Gly Val Ser 216 1le 5 Val Thr Asn Cys 217	Asp Asn Arg Pro 2165 Ile OGln Lys Gly Ala 2173 Arg	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala 55 Glu	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr Co Gly Pro	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly Asn 2175	Gln Arg Asp Ile 2166 Ala 5 Glu Arg Asn Pro 2176 Pro 55	Val Pro 2164 Pro 30 Arg Pro Glu 2172 Ala 10 Pro	Ser 2163 Val 15 Glu Pro Arg Ile 2173 Tyr 25 Ser Gly	Thr 2161 Ala 30 Val Pro Glu Glu 2169 Ser 10 Gly Pro	Ala IS Val Ala Ser Ser 21680 Lys Glu Phe Ile Pro 21760
E> E> E> E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120	Ala Ile Asn Gln Asn 216 Asp Lys Thr His Ser 217 Thr	Lys Lys Lys Ile 2169 Ile 55 Gly Ser Arg Val 217 Arg Val Val Val	Ala Leu Phe 2163 Gln 50 Thr Gly Thr Phe 2173 Met 30 Leu Val	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala Ile Lys	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp O Val Glu Lys Val	Glu  5 Gly Gly Val Ser 216 Ile 5 Val Thr Asn Cys 217 Thr	Asp Asn Arg Pro 2165 Ile OGln Lys Gly Ala 2173 Arg O Asp	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala 55 Glu Thr	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr 20 Gly Pro	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val Val Lys	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly Asn 2175 Thr	Gln Arg Asp Ile 2166 Ala 5 Glu Arg Asn Pro 2176 Pro 5 Thr	Val Pro 2164 Pro 60 Arg Pro Glu 2172 Ala 10 Pro Val	Ser 2163 Val 15 Glu Pro Arg Ile 217 Tyr 25 Ser Gly Ser	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Glu Gly Pro Leu	Ala Ser Ser 21680 Lys Glu Phe Ile Pro 21760 Glu
E> E> E> E> E> E>	4101 4102 4103 4104 4105 4106 4107 4108 4109 4110 4111 4112 4113 4114 4115 4116 4117 4118 4119 4120	Ala Ile Asn Gln Asn 216 Asp Lys Thr His Ser 217 Thr	Trp Lys Lys Ile 2169 Ile 55 Gly Ser Arg Val 217 Arg Val Val	Ala Leu Phe 2163 Gln Thr Gly Thr Phe 2173 Met 30 Leu Val	Leu Ile 2162 Gly 35 Tyr Gly Ser Arg 2170 Lys 15 Ala Ile Lys	Ile 2160 Asn 20 Val Thr Asn Glu 2168 Trp O Val Glu Lys Val 2176	Glu  5 Gly  Gly  Val  Ser 216  Ile  7 Val  Thr  Asn  Cys 217  Thr  55	Asp Asn Arg Pro 2165 Ile O Gln Lys Gly Ala 2173 Arg O Asp	Lys Glu Pro 2164 Asp 55 Thr Gln Val Leu 2172 Ala 55 Glu Thr	Tyr 2162 Leu 10 Ala Leu Tyr Ile 2170 Thr 20 Gly Pro Ser	Glu 2161 Gln 25 Asp Pro Thr Ile 2169 Ser 5 Glu Val Val Lys 217	Ala O Phe Ser Gly Trp 2167 Leu O Lys Gly Gly Asn 2175 Thr	Gln Arg Asp Ile 2166 Ala 5 Glu Arg Asn Pro 2176 Pro 55	Val Pro 2164 Pro 60 Arg Pro Glu 2172 Ala 10 Pro Val	Ser 2163 Val 15 Glu Pro Arg Ile 217 Tyr Ser Gly Ser	Thr 2161 Ala 30 Val Pro Glu 2169 Ser 10 Glu Gly Pro Leu 217	Ala Ser Ser 21680 Lys Glu Phe Ile Pro 21760 Glu 75

ピーー>	4123				2178	30				2178	35				2179	90	
	4124																Ala
E>	4125									-		_		_			
	4126														Gln	Ala	Gly
E>	4127																-
	4128	Glu	Glu	Tyr	Lys	Phe	Arg	Val	Ser	Ala	Ile	Asn	Gly	Ala	Gly	Lys	Gly
E>	4129				_		_						_		_	-	21840
	4130	Asp	Ser	Cys	Glu	Val	Thr	Gly	Thr	Ile	Lys						
E>	4131																
	4132																
E>	4133											_					
	4134																Pro
E>	4135							_					_		_		
	4136															Leu	Arg
E>	4137										_						_
	4138	Ala	Asp	Ile	His	Thr	Thr	Asp	Ser	Phe	Ser	Thr	Leu	Thr	Val	Glu	Asn
E>																	21920
	4140	Cys	Asn	Arg	Asn	Asp	Ala	Gly	Lys	Tyr	Thr	Leu	Thr	Val	Glu	Asn	Asn
E>	4141					2192	25				2193	30				2193	35
	4142	Ser	Gly	Ser	Lys	Ser	Ile	Thr	Phe	Thr	Val	Lys	Val	Leu	Asp	Thr	Pro
E>	4143				2194	10				2194	15				2195	50	
	4144	Gly	Pro	Pro	Gly	Pro	Ile	Thr	Phe	Lys	Asp	Val	Thr	Arg	Gly	Ser	Ala
E>									2196								
	4146	Thr	Leu	Met	Trp	Asp	Ala	Pro	Leu	Leu	Asp	Gly	Gly	Ala	Arg	Ile	His
E>	4147							2197	75				2198	30			
	4 4 4 0																
								Arg	Glu	Ala	Ser	Arg	Arg	Ser	-		Val
E>	4149	2198	35				2199	Arg 90	Glu	Ala	Ser	Arg <b>219</b> 9	Arg 5	Ser			22000
	<b>4149</b> 4150	<b>2198</b> Ile	<b>35</b> Ser	Glu	Lys	Cys	2199 Thr	Arg <b>90</b> Arg	Glu Gln	Ala Ile	Ser Phe	Arg <b>2199</b> Lys	Arg 9 <b>5</b> Val	Ser Asn	Asp	Leu	<b>22000</b> Ala
	<b>4149</b> 4150 <b>4151</b>	<b>219</b> 8 Ile	35 Ser	Glu	Lys	Cys <b>220</b> 0	2199 Thr )5	Arg <b>90</b> Arg	Glu Gln	Ala Ile	Ser Phe 2201	Arg <b>219</b> 9 Lys L <b>0</b> .	Arg <b>95</b> Val	Ser Asn	Asp	Leu <b>2201</b>	<b>22000</b> Ala . <b>5</b>
E>	<b>4149</b> 4150 <b>4151</b> 4152	2198 Ile Glu	Ser Gly	Glu Val	Lys Pro	Cys <b>220</b> Tyr	2199 Thr )5 Tyr	Arg 00 Arg	Glu Gln Arg	Ala Ile Val	Ser Phe 2201 Ser	Arg 2199 Lys LO. Ala	Arg 95 Val Val	Ser Asn Asn	Asp Glu	Leu <b>2201</b> Tyr	<b>22000</b> Ala . <b>5</b>
E>	<b>4149</b> 4150 <b>4151</b> 4152 <b>4153</b>	2198 Ile Glu	Ser Gly	Glu Val	Lys Pro 2202	Cys <b>220</b> 0 Tyr <b>20</b>	2199 Thr )5 Tyr	Arg <b>0</b> Arg Phe	Glu Gln Arg	Ala Ile Val 2202	Ser Phe 2201 Ser 25	Arg 2199 Lys lO. Ala	Arg Val Val	Ser Asn Asn	Asp Glu 2203	Leu <b>2201</b> Tyr <b>30</b>	22000 Ala .5 Gly
E>	<b>4149</b> 4150 <b>4151</b> 4152 <b>4153</b> 4154	Ile Glu Val	Ser Gly Gly	Glu Val Glu	Lys Pro <b>2202</b> Pro	Cys <b>2200</b> Tyr <b>20</b> Tyr	2199 Thr 5 Tyr Glu	Arg O Arg Phe Met	Glu Gln Arg Pro	Ala Ile Val 2202 Glu	Ser Phe 2201 Ser 25 Pro	Arg 2199 Lys 10. Ala	Arg Val Val	Ser Asn Asn Ala	Asp Glu 2203 Thr	Leu <b>2201</b> Tyr <b>30</b>	22000 Ala .5 Gly
E>	4149 4150 4151 4152 4153 4154 4155	2198 Ile Glu Val	Ser Gly Gly	Glu Val Glu 2203	Lys Pro <b>2202</b> Pro	Cys <b>2200</b> Tyr <b>20</b> Tyr	2199 Thr 5 Tyr Glu	Arg O Arg Phe Met	Glu Gln Arg Pro 2204	Ala Ile Val 2202 Glu 10	Ser Phe 2201 Ser 25 Pro	Arg 2199 Lys O. Ala Ile	Arg Val Val	Ser Asn Asn Ala 2204	Asp Glu 2203 Thr	Leu <b>2201</b> Tyr <b>30</b> Glu	22000 Ala .5 Gly Gln
E> E>	4149 4150 4151 4152 4153 4154 4155 4156	2198 Ile Glu Val Pro	Ser Gly Gly Ala	Glu Val Glu 2203 Pro	Lys Pro 2202 Pro 55 Pro	Cys 2200 Tyr 20 Tyr Arg	Thr 5 Tyr Glu Arg	Arg O Arg Phe Met Leu	Glu Gln Arg Pro 2204 Asp	Ala Ile Val 2202 Glu Val Val	Phe 2201 Ser 25 Pro Val	Arg 2199 Lys 0. Ala Ile Asp	Arg Val Val Thr	Ser Asn Asn Ala 2204 Ser	Asp Glu 2203 Thr	Leu <b>2201</b> Tyr <b>30</b> Glu	22000 Ala .5 Gly Gln
E> E>	4149 4150 4151 4152 4153 4154 4155 4156 4157	2198 Ile Glu Val Pro	Ser Gly Gly Ala 2205	Glu Val Glu 2203 Pro	Lys Pro 2202 Pro 55 Pro	Cys 2200 Tyr 20 Tyr Arg	2199 Thr 5 Tyr Glu Arg	Arg O Arg Phe Met Leu 2205	Glu Gln Arg Pro 2204 Asp	Ala Ile Val 2202 Glu Val Val	Phe 2201 Ser Ser Pro	Arg 2199 Lys O. Ala Ile	Arg Val Val Thr 2206	Ser Asn Asn Ala 2204 Ser	Asp Glu 2203 Thr I5 Lys	Leu <b>2201</b> Tyr <b>30</b> Glu Ser	22000 Ala .5 Gly Gln Ser
E> E>	4149 4150 4151 4152 4153 4154 4155 4156 4157 4158	2198 Ile Glu Val Pro Ala	Ser Gly Gly Ala 2205 Val	Glu Val Glu 2203 Pro. Leu	Pro 2202 Pro 5 Pro Ala	Cys 2200 Tyr 0 Tyr Arg	Thr 5 Tyr Glu Arg	Arg O Arg Phe Met Leu 2205 Lys	Glu Gln Arg Pro 2204 Asp 55 Pro	Ala Ile Val 2202 Glu Val Val Asp	Phe 2201 Ser 25 Pro Val	Arg 2199 Lys 0. Ala Ile Asp Asp	Arg Val Val Thr 2206 Gly	Ser Asn Asn Ala 2204 Ser Gly	Asp Glu 2203 Thr Lys Ser	Leu 2201 Tyr 30 Glu Ser	22000 Ala .5 Gly Gln Ser Ile
E> E>	4149 4150 4151 4152 4153 4154 4155 4156 4157 4158 4159	Ile Glu Val Pro Ala 2206	Ser Gly Gly Ala 2205 Val	Glu Val Glu 2203 Pro. 50 Leu	Pro 2202 Pro 5 Pro Ala	Cys 2200 Tyr 0 Tyr Arg	Thr 5 Tyr Glu Arg Leu 2207	Arg O Arg Phe Met Leu 2205 Lys	Glu Gln Arg Pro 2204 Asp Fro	Ala Ile Val 2202 Glu Val Asp	Ser Phe 2201 Ser 25 Pro Val His	Arg 2199 Lys 0. Ala Ile Asp Asp 2207	Arg Val Val Thr 2206 Gly 5	Ser Asn Asn Ala 2204 Ser Gly	Asp Glu 2203 Thr I5 Lys Ser	Leu 2201 Tyr 30 Glu Ser	22000 Ala .5 Gly Gln Ser Ile 22080
E> E> E>	4149 4150 4151 4152 4153 4154 4155 4156 4157 4158 4159 4160	Ile Glu Val Pro Ala 2206 Thr	Ser Gly Gly Ala 2205 Val Gly Gly	Glu Val Glu 2203 Pro. 50 Leu Tyr	Lys Pro 2202 Pro 85 Pro Ala Leu	Cys 2200 Tyr 0 Tyr Arg Trp Leu	Thr Tyr Glu Arg Leu 2207 Glu	Arg O Arg Phe Met Leu 2205 Lys O Met	Glu Gln Arg Pro 2204 Asp 55 Pro Arg	Ala Ile Val 2202 Glu Val Asp Gln	Ser Phe 2201 Ser Pro Val His Lys	Arg 2199 Lys 0. Ala Ile Asp Asp 2207 Gly	Arg Val Val Thr 2206 Gly Ser	Ser Asn Asn Ala 2204 Ser Gly Asp	Asp Glu 2203 Thr 5 Lys Ser Leu	Leu 2201 Tyr 30 Glu Ser Arg	22000 Ala .5 Gly Gln Ser Ile 22080 Val
E> E> E>	4149 4150 4151 4152 4153 4154 4155 4156 4157 4158 4159 4160 4161	2198 Ile Glu Val Pro Ala 2206 Thr	Ser Gly Gly Ala 2205 Val Gly	Glu Val Glu 2203 Pro. 50 Leu Tyr	Lys Pro 2202 Pro 5 Pro Ala Leu	Cys 2200 Tyr 0 Tyr Arg Trp Leu 2208	Thr Tyr Glu Arg Leu 2207 Glu 5	Arg O Arg Phe Met Leu 2205 Lys O Met	Glu Gln Arg Pro 2204 Asp 55 Pro Arg	Ala Ile Val 2202 Glu Val Asp Gln	Phe 2201 Ser 25 Pro Val His Lys 2209	Arg 2199 Lys 0. Ala Ile Asp Asp 2207 Gly	Arg Val Val Thr 2206 Gly Ser	Ser Asn Asn Ala 2204 Ser Gly Asp	Asp Glu 2203 Thr 5 Lys Ser Leu	Leu 2201 Tyr 30 Glu Ser Arg Trp 2209	22000 Ala .5 Gly Gln Ser Ile 22080 Val
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	4270	Ile	Arg	Ala	Gly	Ala	Ser	Leu	Arg	Leu	Met	Val	Ser	Val	Ser	Gly	Arg
E>	4271					2296	65				229	70				2297	75 ⁻
	4272	Pro	Pro	Pro	Val	Ile	Thr	Trp	Ser	Lys	Gln	Gly	Ile	Asp	Leu	Ala	Ser
E>	4273				2298	30				2298	35				2299	90	
	4274	Arg	Ala	Ile	Ile	Asp	Thr	Thr	Glu	Ser	Tyr	Ser	Leu	Leu	Ile	Val	Asp
E>	4275			2299	95				2300	00				2300	)5		
	4276	Lys	Val	Asn	Arg	Tyr	Asp	Ala	Gly	Lys	Tyr	Thr	Ile	Glu	Ala	Glu	Asn
E>	4277		2301	10				230	15				2302	20			
	4278	Gln	Ser	Gly	Lys	Lys	Ser	Ala	Thr	Val	Leu	Val	Lys	Val	Tyr	Asp	Thr
E>	4279	2302	25				2303	30				2303	35				23040
	4280	Pro	Gly	Pro	Cys	Pro	Ser	Val	Lys	Val	Lys	Glu	Val	Ser	Arg	Asp	Ser
E>	4281					2304	15				2305	50				2305	55
	4282	Val	Thr	Ile	Thr	Trp	Glu	Ile	Pro	Thr	Ile	Asp	Gly	Gly	Ala	Pro	Ile
E>	4283				2306	60				230	65				230	70	
	4284			_				_	_					Arg	Ala	Phe	Lys
E>														2308	_		
	4286	Thr	Val	Thr	Thr	Lys	Cys	Ser	Lys	Thr	Leu	Tyr	Arg	Ile	Ser	Gly	Leu
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E>	4307	-	2325	50				2325	55 ⁻				2326	60			
	4308	Ile	Ala	Gly	Arg	Pro	Pro	Pro	Ala	Ala	Ser	Trp	Phe	Phe	Ala	Gly	Ser
E>	4309	2326	55				232	70				2327	75				23280
	4310						Glu	Arg	Val	Thr	Val	Glu	Thr	His	Thr	Lys	Val
E>	4311					2328	35				2329	90				2329	95
	4312	Ala	Lys	Leu	Thr	Ile	Arg	Glu	Thr	Thr	Ile	Arg	Asp	Thr	Gly	Glu	Tyr
E>																	
	4314	Thr	Leu	Glu	Leu	Lys	Asn	Val	Thr	Gly	Thr	Thr	Ser	Glu	Thr	Ile	Lys
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	4316														Ile	Lys	Ile
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	4318	Asp	GLu	Ile	Asp	Ala	Thr	Ser	ile	Thr	Пе	Ser	Trp	GLu	Pro	Pro	GLu

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	4320	Leu	Asp	Gly	Gly	Ala	Pro	Leu	Ser	Gly	Tyr	Val	Val	Glu	Gln	Arg	Asp
E>	4321					2336	55				2337	70				233	75
	4322	Ala	His	Arg	Pro	Gly	Trp	Leu	Pro	Val	Ser	Glu	Ser	Val	Thr	Arg	Ser
E>	4323				2338	30				2338	35				2339	90	
	4324	Thr	Phe	Lys	Phe	Thr	Arg	Leu	Thr	Glu	Gly	Asn	Glu	Tyr	Val	Phe	Arg
E>	4325			2339	95				2340	00				2340	)5		
	4326	Val	Ala	Ala	Thr	Asn	Arg	Phe	Gly	Ile	Gly	Ser	Tyr	Leu	Gln	Ser	Glu
E>	4327		234:	10				2341	15				2342	20			
	4328	Val	Ile	Glu	Cys	Arg	Ser	Ser	Ile	Arg	Ile	Pro	Gly	Pro	Pro	Glu	Thr
E>	4329	2342	25				2343	30				2343	35				23440
	4330	Leu	Gln	Ile	Phe	Asp	Val	Ser	Arg	Asp	Gly	Met	Thr	Leu	Thr	Trp	Tyr
E>	4331					2344	15				2345	50				2345	55
	4332	Pro	Pro	Glu	Asp	Asp	Gly	Gly	Ser	Gln	Val	Thr	Gly	Tyr	Ile	Val	Glu
E>	4333				2346	50				2346	55				2347	70	
	4334	Arg	Lys	Glu	Val	Arg	Ala	Asp	Arg	Trp	Val	Arg	Val	Asn	Lys	Val	Pro
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E>	4346 <b>4347</b>	Gly	Tyr 235	Leu 70	Ile	Glu	Met	Gln 2357	Lys <b>75</b>	Val	Asp	Gln	His 2358	Glu 30	55 Trp	Thr	-
	4346 <b>4347</b> 4348	Gly Cys	Tyr 235 Asn	Leu 70 Thr	<pre>Ile Thr</pre>	Glu Pro	Met Thr	Gln <b>235</b> 7 Lys	Lys <b>75</b> Ile	Val Arg	Asp Glu	Gln Tyr	His 2358 Thr	Glu 30 Leu	Trp	Thr His	Leu
	4346 <b>4347</b> 4348 <b>4349</b>	Gly Cys <b>235</b> 8	Tyr <b>235</b> Asn <b>35</b>	Leu 70 Thr	Ile Thr	Glu Pro	Met Thr 2359	Gln <b>235</b> 7 Lys <b>90</b>	Lys <b>75</b> Ile	Val Arg	Asp Glu	Gln Tyr 2359	His 2358 Thr 95	Glu 30 Leu	Trp	Thr His	Leu 23600
E>	4346 <b>4347</b> 4348 <b>4349</b> 4350	Cys 2358 Pro	Tyr 235 Asn 35 Gln	Leu 70 Thr Gly	Ile Thr Ala	Glu Pro Glu	Met Thr 2359 Tyr	Gln 2357 Lys 90 Arg	Lys 75 Ile Phe	Val Arg Arg	Asp Glu Val	Gln Tyr 2359 Leu	His 2358 Thr 95 Ala	Glu 30 Leu Cys	Trp Thr Asn	Thr His Ala	Leu 23600 Gly
	4346 4347 4348 4349 4350 4351	Gly Cys 2358 Pro	Tyr 2357 Asn 35 Gln	Leu 70 Thr Gly	Ile Thr Ala	Glu Pro Glu 2360	Met Thr 2359 Tyr 05	Gln 2357 Lys 90 Arg	Lys 75 Ile Phe	Val Arg Arg	Asp Glu Val 2361	Gln Tyr 2359 Leu LO	His 2358 Thr 5 Ala	Glu 30 Leu Cys	Trp Thr Asn	Thr His Ala 2361	Leu <b>23600</b> Gly L <b>5</b>
E>	4346 4347 4348 4349 4350 4351 4352	Cys 2358 Pro	Tyr 235 Asn S5 Gln Pro	Leu 70 Thr Gly	Ile Thr Ala Glu	Glu Pro Glu 2360 Pro	Thr 2359 Tyr 5 Ala	Gln 2357 Lys 90 Arg	Lys 75 Ile Phe Val	Val Arg Arg Pro	Asp Glu Val 2361 Gly	Tyr 2359 Leu LO Thr	His 2358 Thr 95 Ala Val	Glu 30 Leu Cys	Trp Thr Asn	Thr His Ala 2361 Thr	Leu <b>23600</b> Gly L <b>5</b>
E>	4346 4347 4348 4349 4350 4351 4352 4353	Cys 2358 Pro Gly	Tyr 235 Asn 35 Gln Pro	Leu 70 Thr Gly Gly	Thr Ala Glu 2362	Glu Pro Glu 2360 Pro	Thr 2359 Tyr 05 Ala	Gln 2357 Lys 90 Arg Glu	Lys 75 Ile Phe Val	Val Arg Arg Pro	Asp Glu Val 2361 Gly 25	Tyr 2359 Leu LO Thr	His 2358 Thr 95 Ala Val	Glu 30 Leu Cys Lys	Trp Thr Asn Val 2363	Thr His Ala 2361 Thr	Leu 23600 Gly L <b>5</b> Glu
E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354	Cys 2358 Pro Gly Met	Tyr 2357 Asn S5 Gln Pro	Leu 70 Thr Gly Gly	Thr Ala Glu 2362 Tyr	Glu Pro Glu 2360 Pro Pro	Thr 2359 Tyr 5 Ala Asp	Gln 2357 Lys 0 Arg Glu Tyr	Lys 75 Ile Phe Val Glu	Val Arg Arg Pro 2362 Leu	Asp Glu Val 2361 Gly 25 Asp	Tyr 2359 Leu LO Thr	His 2358 Thr 5 Ala Val Arg	Glu 30 Leu Cys Lys	Trp Thr Asn Val 2363 Gln	Thr His Ala 2361 Thr	Leu 23600 Gly L <b>5</b> Glu
E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355	Cys 2358 Pro Gly Met	Tyr 2357 Asn 35 Gln Pro	Leu 70 Thr Gly Gly Glu 2363	Thr Ala Glu 2362 Tyr	Glu Pro Glu 2360 Pro Pro	Thr 2359 Tyr 5 Ala Asp	Gln 2357 Lys 90 Arg Glu Tyr	Lys 75 Ile Phe Val Glu 2364	Val Arg Arg Pro 2362 Leu 10	Asp Glu Val 2361 Gly 25 Asp	Tyr 2359 Leu 10 Thr	His 2358 Thr 5 Ala Val Arg	Glu 30 Leu Cys Lys Tyr 2364	Trp Thr Asn Val 2363 Gln	Thr His Ala 2361 Thr Glu	Leu 23600 Gly L5 Glu Gly
E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356	Cys 2358 Pro Gly Met	Tyr 2357 Asn 35 Gln Pro Leu Phe	Leu 70 Thr Gly Gly Glu 2363 Val	Thr Ala Glu 2362 Tyr 55 Arg	Glu Pro Glu 2360 Pro Pro Gln	Thr 2359 Tyr 5 Ala Asp Gly	Gln 2357 Lys 0 Arg Glu Tyr	Lys 75 Ile Phe Val Glu 2364 Val	Val Arg Arg Pro 2362 Leu 10 Ile	Asp Glu Val 2361 Gly 25 Asp Arg	Tyr 2359 Leu 10 Thr Glu Leu	His 2358 Thr 5 Ala Val Arg	Glu 30 Leu Cys Lys Tyr 2364 Ile	Trp Thr Asn Val 2363 Gln	Thr His Ala 2361 Thr Glu	Leu 23600 Gly L5 Glu Gly
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E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358	Cys 2358 Pro Gly Met Ile Gly	Tyr 2357 Asn 55 Gln Pro Leu Phe 2365 Lys	Leu 70 Thr Gly Gly Slu 2363 Val 50 Pro	Thr Ala Glu 2362 Tyr S5 Arg	Glu Pro Glu 2360 Pro Pro Gln Pro	Met Thr 2359 Tyr 5 Ala Asp Gly Ile	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys	Val Arg Arg Pro 2362 Leu 10 Ile	Asp Glu Val 2361 Gly 25 Asp Arg	Tyr 2359 Leu 10 Thr Glu Leu Lys	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly	Trp Thr Asn Val 2363 Gln Pro Gln	Thr His Ala 2361 Thr Glu Ile Asp	Leu 23600 Gly 5 Glu Gly Lys Ile
E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359	Cys 2358 Pro Gly Met Ile Gly 2366	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys	Leu 70 Thr Gly Glu 2363 Val 50 Pro	Thr Ala Glu 2362 Tyr S5 Arg	Glu Pro Glu 2360 Pro Pro Gln Pro	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys	Val Arg Arg Pro 2362 Leu 10 Ile	Asp Glu Val 2361 Gly 25 Asp Arg	Tyr 2359 Leu 10 Thr Glu Leu Lys 2367	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 5	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly	Trp Thr Asn Val 2363 Gln Pro Gln	Thr His Ala 2361 Thr Glu Ile Asp	Leu 23600 Gly 5 Glu Gly Lys Ile 23680
E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360	Cys 2358 Pro Gly Met Ile Gly 2366 Ser	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys Lys	Leu 70 Thr Gly Glu 2363 Val 50 Pro	Thr Ala Glu 2362 Tyr S5 Arg Phe Ala	Glu Pro Glu 2360 Pro O Pro Gln Pro Met	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala	Lys 75 Ile Phe Val Glu 2364 Val Lys Thr	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser	Asp Glu Val 2361 Gly 25 Asp Arg Thr	Tyr 2359 Leu 0 Thr Glu Leu Lys 2367	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 5 His	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly	Trp Thr Asn Val 2363 Gln Pro Gln Glu	Thr His Ala 2361 Thr Glu Ile Asp	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val
E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360	Cys 2358 Pro Gly Met Ile Gly 2366 Ser	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys 55	Leu 70 Thr Gly Glu 2363 Val 50 Pro	Thr Ala Glu 2362 Tyr S5 Arg Phe Ala	Glu Pro Glu 2360 Pro Gln Pro Met 2368	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367 Ile	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala	Lys 75 Ile Phe Val Glu 2364 Val Thr	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser	Asp Glu Val 2361 Gly 25 Asp Arg Thr Glu 2369	Tyr 2359 Leu 0 Thr Glu Leu Lys 2367 Thr	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 5 His	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly	Trp Thr Asn Val 2363 Gln Pro Gln Glu	Thr His Ala 2361 Thr Glu Ile Asp Leu 2369	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val
E> E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361	Cys 2358 Pro Gly Met Ile Gly 2366 Ser	Tyr 2357 Asn 35 Gln Pro Leu Phe 2365 Lys Lys Lys	Leu 70 Thr Gly Glu 2363 Val 50 Pro Arg	Thr Ala Glu 2362 Tyr S Arg Phe Ala Ala	Glu Pro Glu 2360 Pro Gln Pro Met 2368 Asp	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367 Ile 5 Arg	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala Gly	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys Thr Asp	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser Ser	Asp Glu Val 2361 Gly 25 Asp Arg Thr Glu 2369 Gly	Tyr 2359 Leu 10 Thr Glu Leu Lys 2367 Thr	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 5 His	Glu 30 Leu Cys Lys Tyr 2364 Ile 50 Gly Thr	Trp Thr Asn Val 2363 Gln Pro Gln Glu Leu	Thr His Ala 2361 Thr Glu Ile Asp Leu 2369 Val	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val
E> E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362	Cys 2358 Pro Gly Met Ile Gly 2366 Ser Ile	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys Lys Lys	Leu 70 Thr Gly Glu 2363 Val 50 Pro Arg Glu	Thr Ala Glu 2362 Tyr 35 Arg Phe Ala Ala 2370	Glu Pro Glu 2360 Pro Gln Pro Met 2368 Asp	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367 Ile 5 Arg	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala Gly	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys Thr Asp	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser Ser 2370	Asp Glu Val 2361 Gly 25 Asp Arg Thr Glu 2369 Gly 05	Tyr 2359 Leu 10 Thr Glu Leu Lys 2367 Thr	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 75 His	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly Thr	Trp Thr Asn Val 2363 Gln Pro Gln Glu Leu 2371	Thr His Ala 2361 Thr Glu Ile Asp Leu 2369 Val	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val 5 Leu
E> E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362 4363 4364	Cys 2358 Pro Gly Met Ile Gly 2366 Ser Ile Glu	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys Lys Lys Asn	Leu 70 Thr Gly Glu 2363 Val 50 Pro Arg Glu Lys	Thr Ala Glu 2362 Tyr 55 Arg Phe Ala Ala 2370 Cys	Glu Pro Glu 2360 Pro Gln Pro Met 2368 Asp Gly	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367 Ile 5 Arg Lys	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 0 Ala Gly Lys	Lys 75 Ile Phe Val Glu 2364 Val Thr Asp Ala	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser 2370 Val	Asp Glu Val 2361 Gly 25 Asp Arg Thr Glu 2369 Gly 5 Tyr	Tyr 2359 Leu 0 Thr Glu Leu Lys 2367 Thr O Thr	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 75 His Tyr Lys	Glu 30 Leu Cys Lys Tyr 2364 Ile 50 Gly Thr Asp Val	Trp Thr Asn Val 2363 Gln Fro Gln Glu Leu 2371 Arg	Thr His Ala 2361 Thr Glu Ile Asp Leu 2369 Val	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val 5 Leu
E> E> E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362 4363 4364	Cys 2356 Pro Gly Met Ile Gly 2366 Ser Ile Glu	Tyr 235 Asn 35 Gln Pro Leu Phe 2365 Lys Lys Lys Asn	Leu 70 Thr Gly Glu 2363 Val 50 Pro Arg Glu Lys 2371	Thr Ala Glu 2362 Tyr 5 Arg Phe Ala Ala 2370 Cys	Glu Pro Glu 2360 Pro Gln Pro Met 2368 Asp O Gly	Thr 2359 Tyr 5 Ala Asp Gly Ile 2369 Ile 5 Arg Lys	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala Gly Lys	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys Thr Asp Ala 2372	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser Ser 2370 Val	Asp Glu Val 2361 Gly 25 Asp Arg Thr Glu 2369 Gly 5 Tyr	Tyr 2359 Leu 0 Thr Glu Leu Lys 2367 Thr Ile	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu His Tyr Lys	Glu 30 Leu Cys Lys Tyr 2364 Ile 60 Gly Thr Asp Val 2372	Trp Thr Asn Val 2363 Gln Fro Gln Glu Leu 2371 Arg	Thr His Ala 2361 Thr O Glu Ile Asp Leu 2369 Val O Val	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val 5 Leu Ile
E> E> E> E> E> E>	4346 4347 4348 4349 4350 4351 4352 4353 4354 4355 4356 4357 4358 4359 4360 4361 4362 4363 4364 4365 4366	Cys 2358 Pro Gly Met Ile Gly 2366 Ser Ile Glu Gly	Tyr 235 Asn 55 Gln Pro Leu Phe 2365 Lys Lys Lys Asn Ser	Leu 70 Thr Gly Glu 2363 Val 50 Pro Arg Glu Lys 2371 Pro	Thr Ala Glu 2362 Tyr S Arg Phe Ala Ala 2370 Cys Asn	Glu Pro Glu 2360 Pro Gln Pro Met 2368 Asp Gly Ser	Thr 2359 Tyr 5 Ala Asp Gly Ile 2367 Ile 5 Arg Lys Pro	Gln 2357 Lys 0 Arg Glu Tyr Gly 2365 Cys 70 Ala Gly Lys Glu	Lys 75 Ile Phe Val Glu 2364 Val 55 Lys Thr Asp Ala 2372 Gly	Val Arg Arg Pro 2362 Leu 10 Ile Trp Ser 2370 Val 20 Pro	Asp Glu Val 2361 Gly S Asp Arg Thr Glu 2369 Gly Tyr Leu	Tyr 2359 Leu 10 Thr Glu Lys 2367 Thr O Thr	His 2358 Thr 5 Ala Val Arg Thr 2366 Glu 5 His Tyr Lys	Glu 30 Leu Cys Lys Tyr 2364 Ile 50 Gly Thr Asp Val 2372 Asp	Trp Thr Asn Val 2363 Gln Fro Gln Glu Leu 2371 Arg	Thr His Ala 2361 Thr O Glu Ile Asp Leu 2369 Val O Val	Leu 23600 Gly 5 Glu Gly Lys Ile 23680 Val 5 Leu Ile

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E>	4375			2379	95				2380	00				2380	)5		
	4376	Asn	Gln	Phe	Gly	Ile	Ser	Lys	Pro	Leu	Lys	Ser	Glu	Glu	Pro	Val	Thr
E>	4377		238:	LO				238:	15				2382	20			
	4378	Pro	Lys	Thr	Pro	Leu	Asn	Pro	Pro	Glu	Pro	Pro	Ser	Asn	Pro	Pro	Glu
E>	4379	2382	25				2383	30				2383	35				23840
	4380	Val	Leu	Asp	Val	Thr	Lys	Ser	Ser	Val	Ser	Leu	Ser	Trp	Ser	Arg	Pro
E>	4381					2384	15				2385	50				2385	55
	4382	Lys	Asp	Asp	Gly	Gly	Ser	Arg	Val	Thr	Gly	Tyr	Tyr	Ile	Glu	Arg	Lys
E>	4383				2386	60				2386	65				2387	70	
	4384	Glu	Thr	Ser	Thr	Asp	Lys	Trp	Val	Arg	His	Asn	Lys	Thr	Gln	Ile	Thr
E>	4385			238	75				2388	30				2388	35		
	4386	Thr	Thr	Met	Tyr	Thr	Val	Thr	Gly	Leu	Val	Pro	Asp	Ala	Glu	Tyr	Gln
E>	4387		2389	90				2389	95				2390	00		_	
	4388	Phe	Arg	Ile	Ile	Ala	Gln	Asn	Asp	Val	Gly	Leu	Ser	Glu	Thr	Ser	Pro
E>			_						_		_						23920
	4390																
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	4402	Ser	Arg	Pro	Arg	Glu <b>240</b> Arg	Phe )5 Thr	Arg Ala	Val Met	Phe Ser	Ala <b>240</b> Ile	Glu . <b>0</b> Lys	Asn Thr	Glu Lys	Thr Leu	Gly <b>2401</b> Thr	.5
ドーーン	4402 <b>4403</b>	Ser	Arg	Pro	Arg 2402	Glu <b>240</b> 0 Arg <b>0</b>	Phe )5 Thr	Arg Ala	Val Met	Phe Ser 2402	Ala <b>240</b> 1 Ile <b>25</b>	Glu . <b>0</b> Lys	Asn Thr	Glu Lys	Thr Leu 2403	Gly <b>2401</b> Thr <b>30</b>	. <b>5</b> Ser
	4402 <b>4403</b> 4404	Ser Gly	Arg Glu	Pro Ala	Arg 2402 Pro	Glu 2400 Arg 20 Gly	Phe )5 Thr	Arg Ala Arg	Val Met Lys	Phe Ser 2402 Glu	Ala 2401 Ile 25 Met	Glu .0 Lys	Asn Thr Asp	Glu Lys Val	Thr Leu 2403 Thr	Gly <b>2401</b> Thr <b>30</b>	. <b>5</b> Ser
E>	4402 <b>4403</b> 4404 <b>4405</b>	Ser Gly	Arg Glu	Pro Ala 2403	Arg <b>2402</b> Pro	Glu 2400 Arg 20 Gly	Phe )5 Thr Ile	Arg Ala Arg	Val Met Lys 2404	Phe Ser 2402 Glu 10	Ala 2401 Ile 25 Met	Glu . <b>0</b> Lys Lys	Asn Thr Asp	Glu Lys Val <b>2404</b>	Thr Leu <b>240</b> 3 Thr	Gly 2401 Thr 30 Thr	. <b>5</b> Ser Lys
E>	4402 <b>4403</b> 4404 <b>4405</b> 4406	Ser Gly Leu	Arg Glu Gly	Pro Ala 2403 Glu	Arg <b>2402</b> Pro <b>35</b> Ala	Glu 2400 Arg 20 Gly Ala	Phe )5 Thr Ile Gln	Arg Ala Arg Leu	Val Met Lys <b>240</b> 4 Ser	Phe Ser 2402 Glu 10 Cys	Ala 2401 Ile 25 Met Gln	Glu .0 Lys Lys	Asn Thr Asp Val	Glu Lys Val 2404 Gly	Thr Leu <b>240</b> 3 Thr	Gly 2401 Thr 30 Thr	. <b>5</b> Ser Lys
	4402 4403 4404 4405 4406 4407	Ser Gly Leu	Arg Glu Gly 2405	Pro Ala <b>240</b> 3 Glu <b>50</b>	Arg <b>2402</b> Pro <b>35</b> Ala	Glu 2400 Arg 20 Gly Ala	Phe )5 Thr Ile Gln	Arg Ala Arg Leu 2405	Val Met Lys <b>240</b> 4 Ser	Phe Ser 2402 Glu 10 Cys	Ala 2401 Ile 25 Met Gln	Glu .0 Lys Lys	Asn Thr Asp Val 2406	Glu Lys Val <b>2404</b> Gly <b>50</b>	Thr Leu 2403 Thr 5 Arg	Gly 2401 Thr 30 Thr	. <b>5</b> Ser Lys Leu
E>	4402 4403 4404 4405 4406 4407 4408	Ser Gly Leu Pro	Arg Glu Gly 2405 Asp	Pro Ala 2403 Glu 50 Ile	Arg 2402 Pro 35 Ala Lys	Glu 2400 Arg 0 Gly Ala Trp	Phe  Thr  Ile  Gln  Tyr	Arg Ala Arg Leu 2405 Arg	Val Met Lys 2404 Ser 55 Phe	Phe Ser 2402 Glu 10 Cys Gly	Ala 2401 Ile 25 Met Gln Lys	Glu O Lys Lys Ile Glu	Asn Thr Asp Val 2406 Leu	Glu Lys Val <b>2404</b> Gly <b>50</b> Ile	Thr Leu 2403 Thr 5 Arg	Gly 2401 Thr 30 Thr Pro	.5 Ser Lys Leu Arg
E>	4402 4403 4404 4405 4406 4407 4408 4409	Ser Gly Leu Pro 2406	Arg Glu Gly <b>240</b> 5 Asp	Pro Ala 2403 Glu 50 Ile	Arg 2402 Pro 85 Ala Lys	Glu 2400 Arg 0 Gly Ala Trp	Phe 5 Thr Ile Gln Tyr 2407	Arg Ala Arg Leu 2405 Arg	Val Met Lys <b>240</b> 4 Ser <b>55</b> Phe	Phe Ser 2402 Glu 10 Cys Gly	Ala 2401 Ile 25 Met Gln Lys	Glu .0 Lys Lys Ile Glu 2407	Asn Thr Asp Val 2406 Leu	Clu Lys Val 2404 Gly 50 Ile	Thr Leu 2403 Thr 5 Arg	Gly 2401 Thr 30 Thr Pro	Ser Lys Leu Arg 24080
E> E>	4402 4403 4404 4405 4406 4407 4408 4409 4410	Ser Gly Leu Pro 2406 Lys	Arg Glu Gly 2405 Asp 55	Pro Ala 2403 Glu 50 Ile Lys	Arg 2402 Pro 35 Ala Lys Met	Glu 2400 Arg O Gly Ala Trp Ser	Phe 5 Thr Ile Gln Tyr 2407	Arg Ala Arg Leu 2405 Arg O Asp	Val Met Lys 2404 Ser 55 Phe	Phe Ser 2402 Glu 10 Cys Gly Arg	Ala 2401 Ile 25 Met Gln Lys Thr	Glu .0 Lys Lys Ile Glu 2407 His	Asn Thr Asp Val 2406 Leu 5	Glu Lys Val 2404 Gly 50 Ile Leu	Thr Leu 2403 Thr 5 Arg Gln Thr	Gly 2401 Thr 30 Thr Pro Ser Val	Ser Lys Leu Arg 24080 Met
E>	4402 4403 4404 4405 4406 4407 4408 4409 4410 4411	Ser Gly Leu Pro 2406 Lys	Arg Glu Gly 2405 Asp Tyr	Pro Ala 2403 Glu 50 Ile Lys	Arg 2402 Pro 35 Ala Lys Met	Glu 2400 Arg O Gly Ala Trp Ser 2408	Phe 5 Thr Ile Gln Tyr 2407 Ser	Arg Ala Arg Leu 2405 Arg O Asp	Val Met Lys 2404 Ser 55 Phe	Phe Ser 2402 Glu 10 Cys Gly Arg	Ala 2401 Ile 25 Met Gln Lys Thr 2409	Glu Lys Lys Ile Glu 2407 His	Asn Thr Asp Val 2406 Leu 5	Clu Lys Val 2404 Gly Tle Leu	Thr Leu 2403 Thr 5 Arg Gln Thr	Gly 2401 Thr 30 Thr Pro Ser Val 2409	Ser Lys Leu Arg 24080 Met
E> E> E>	4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412	Ser Gly Leu Pro 2406 Lys Thr	Arg Glu Gly 2405 Asp Tyr Glu	Pro Ala 2403 Glu 50 Ile Lys Glu	Arg 2402 Pro 35 Ala Lys Met Gln	Glu 2400 Arg O Gly Ala Trp Ser 2408 Glu	Phe 5 Thr Ile Gln Tyr 2407 Ser 5 Asp	Arg Ala Arg Leu 2405 Arg O Asp Glu	Val Met Lys 2404 Ser 55 Phe Gly	Phe Ser 2402 Glu 10 Cys Gly Arg Val	Ala 2401 Ile 25 Met Gln Lys Thr 2409 Tyr	Glu O Lys Lys Ile Glu 2407 His O Thr	Asn Thr Asp Val 2406 Leu 5 Thr	Clu Lys Val 2404 Gly O Ile Leu Ile	Thr Leu 2403 Thr 5 Arg Gln Thr Ala	Gly 2401 Thr 30 Thr Pro Ser Val 2409 Thr	Ser Lys Leu Arg 24080 Met
E> E>	4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412 4413	Ser Gly Leu Pro 2406 Lys Thr	Arg Glu Gly 2405 Asp Tyr Glu	Pro Ala 2403 Glu 50 Ile Lys Glu	Arg 2402 Pro 35 Ala Lys Met Gln 2410	Glu 2400 Arg O Gly Ala Trp Ser 2408 Glu O	Phe 5 Thr Ile Gln Tyr 2407 Ser 5 Asp	Arg Ala Arg Leu 2405 Arg 70 Asp Glu	Val Met Lys 2404 Ser 55 Phe Gly	Phe Ser 2402 Glu 10 Cys Gly Arg Val 2410	Ala 2401 Ile 25 Met Gln Lys Thr 2409 Tyr	Glu Lys Lys Ile Glu 2407 His	Asn Thr Asp Val 2406 Leu 5 Thr	Clu Lys Val 2404 Gly Tle Leu Ile	Thr Leu 2403 Thr 5 Arg Gln Thr Ala 2411	Gly 2401 Thr 30 Thr Pro Ser Val 2409 Thr	Ser Lys Leu Arg 24080 Met 5 Asn
E> E> E>	4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412 4413 4414	Ser Gly Leu Pro 2406 Lys Thr Glu	Arg Glu Gly 2405 Asp Tyr Glu Val	Pro Ala 2403 Glu 50 Ile Lys Glu Gly	Arg 2402 Pro 5 Ala Lys Met Gln 2410 Glu	Glu 2400 Arg O Gly Ala Trp Ser 2400 Glu O Val	Phe 5 Thr Ile Gln Tyr 2407 Ser 5 Asp	Arg Ala Arg Leu 2405 Arg O Asp Glu Thr	Val Met Lys 2404 Ser 55 Phe Gly Gly Ser	Phe Ser 2402 Glu 10 Cys Gly Arg Val 2410 Ser	Ala 2401 Ile 25 Met Gln Lys Thr 2409 Tyr 5	Glu Lys Lys Ile Glu 2407 His O Thr	Asn Thr Asp Val 2406 Leu 5 Thr Cys Leu	Clu Lys Val 2404 Gly O Ile Leu Ile Leu	Thr Leu 2403 Thr 5 Arg Gln Thr Ala 2411 Gln	Gly 2401 Thr 30 Thr Pro Ser Val 2409 Thr	Ser Lys Leu Arg 24080 Met 5 Asn
E> E> E>	4402 4403 4404 4405 4406 4407 4408 4409 4410 4411 4412 4413 4414 4415	Ser Gly Leu Pro 2406 Lys Thr	Arg Glu Gly 2405 Asp Tyr Glu Val	Pro Ala 2403 Glu 50 Ile Lys Glu Gly 2413	Arg 2402 Pro 35 Ala Lys Met Gln 2410 Glu	Glu 2400 Arg O Gly Ala Trp Ser 2408 Glu O Val	Phe 5 Thr Ile Gln Tyr 2407 Ser 5 Asp	Arg Ala Arg Leu 2405 Arg O Asp Glu Thr	Val Met Lys 2404 Ser 5 Phe Gly Gly Ser 2412	Phe Ser 2402 Glu 10 Cys Gly Arg Val 2410 Ser	Ala 2401 Ile 25 Met Gln Lys Thr 2409 Tyr 5	Glu Lys Lys Ile Glu 2407 His O Thr	Asn Thr Asp Val 2406 Leu Thr Cys Leu	Glu Lys Val 2404 Gly Tle Leu Leu 2412	Thr Leu 2403 Thr 5 Arg Gln Thr Ala 2411 Gln	Gly 2401 Thr 30 Thr Pro Ser Val 2409 Thr .0 Ala	Ser Lys Leu Arg 24080 Met 5 Asn

E>	4417		2413	30				2413	35				241	10			
															Arg	Pro	Val
E>	4419	241	45 ⁻				2415	50				2415	55	_	_		24160
	4420																
E>						_			_		_						
	4422	Asn	Ile	Thr	Ile	Glu	Asn	Thr	Glu	His	Tyr	Thr	His	Leu	Val	Met	Lys
E>	4423				2418	30				2418	35				2419	90	-
	4424																Ser
E>					-	-				_	-		-				
																Gln	Asp
E>					_			_				_					•
	4428														Leu	Leu	Lys
E>				_	-			_									24240
	4430																
E>																	
	4432	Trp	Ile	Thr	Asn	Tyr	Val	Val	Glu	Lys	Cys	Glu	Ala	Lys	Glu	Gly	Ala
E>		-				_				-	_						
	4434	Glu	Trp	Gln	Leu	Val	Ser	Ser	Ala	Ile	Ser	Val	Thr	Thr	Cys	Arg	Ile
E>	4435		_	242	75				2428	30				2428	35		
	4436															Ala	Gln
E>	4437		2429	90				2429	95				2430	00			
	4438	Asn	Thr	Phe	Gly	Ile	Ser	Asp	Pro	Leu	Glu	Val	Ser	Ser	Val	Val	Ile
E>	4439	2430	05				2431	LO				2431	1.5				24320
	4440	Ile	Lys	Ser	Pro	Phe	Glu	Lys	Pro	Gly	Ala	Pro	Gly	Lys	Pro	Thr	Ile
E>	4441					2432	25				2433	30				2433	35
	4442	Thr	Ala	Val	Thr	Lys	Asp	Ser	Cys	Val	Val	Ala	Trp	Lys	Pro	Pro	Ala
E>																	
	4444	Ser	Asp	Gly	Gly	Ala	Lvs	Ile	Arg	Asn	Tyr	Tyr	Leu	Glu	Lys	Arg	Glu
E>	4445																
				243	55 ⁻		_		2436	50				2436	55		
	4446			2439 Gln												Arg	Glu
E>		Lys	Lys	Gln	Asn	Lys	Trp	Ile	Ser	Val	Thr	Thr		Glu		Arg	Glu
E>		Lys	Lys <b>243</b>	Gln 70	Asn	Lys	Trp	Ile <b>243</b>	Ser 7 <b>5</b>	Val	Thr	Thr	Glu <b>243</b> 8	Glu <b>30</b>	Ile		
	<b>4447</b> 4448	Lys Thr	Lys <b>243</b> Val	Gln 70 Phe	Asn Ser	Lys Val	Trp Lys	Ile <b>243</b> Asn	Ser <b>75</b> Leu	Val Ile	Thr Glu	Thr Gly	Glu <b>243</b> 8 Leu	Glu <b>30</b> Glu	Ile Tyr	Glu	
	<b>4447</b> 4448	Lys Thr 243	Lys <b>243</b> Val <b>85</b>	Gln 70 Phe	Asn Ser	Lys Val	Trp Lys 2439	Ile <b>243</b> Asn <b>90</b>	Ser <b>75</b> Leu	Val Ile	Thr	Thr Gly 2439	Glu <b>243</b> 8 Leu <b>95</b>	Glu <b>30</b> Glu	Ile Tyr	Glu	Phe <b>24400</b>
	<b>4447</b> 4448 <b>4449</b> 4450	Lys Thr 2438 Arg	Lys <b>243'</b> Val <b>35</b> Val	Gln 70 Phe Lys	Asn Ser Cys	Lys Val Glu	Trp Lys 2439 Asn	Ile <b>243</b> Asn <b>90</b> Leu	Ser 75 Leu Gly	Val Ile Gly	Thr Glu Glu	Thr Gly 2439 Ser	Glu 2438 Leu 95 Glu	Glu 30 Glu Trp	Ile Tyr Ser	Glu Glu	Phe 24400 Ile
E>	<b>4447</b> 4448 <b>4449</b> 4450	Lys Thr 2438 Arg	Lys 243' Val 85 Val	Gln 70 Phe Lys	Asn Ser Cys	Lys Val Glu 2440	Trp Lys 2439 Asn	Ile <b>243</b> Asn <b>90</b> Leu	Ser 75 Leu Gly	Val Ile Gly	Thr Glu Glu 2441	Thr Gly <b>243</b> 9 Ser	Glu 2438 Leu 95 Glu	Glu 30 Glu Trp	Ile Tyr Ser	Glu Glu 2441	Phe <b>24400</b> Ile <b>5</b>
E>	4447 4448 4449 4450 4451 4452	Thr 2438 Arg	Lys 243' Val 85 Val Glu	Gln 70 Phe Lys Pro	Asn Ser Cys Ile	Lys Val Glu 2440 Thr	Trp Lys 2439 Asn 55 Pro	Ile 2437 Asn 90 Leu Lys	Ser 75 Leu Gly Ser	Val Ile Gly Asp	Thr Glu Glu 2441 Val	Thr Gly <b>243</b> 9 Ser LO Pro	Glu 2438 Leu 95 Glu Ile	Glu 30 Glu Trp Gln	Ile Tyr Ser Ala	Glu Glu 2441 Pro	Phe <b>24400</b> Ile <b>5</b>
E>	4447 4448 4449 4450 4451 4452	Thr 2438 Arg Ser	Lys 243' Val 85 Val Glu	Gln 70 Phe Lys Pro	Asn Ser Cys Ile 2442	Lys Val Glu <b>244</b> Thr	Trp Lys 2439 Asn 55 Pro	Ile 2437 Asn 90 Leu Lys	Ser 75 Leu Gly Ser	Val Ile Gly Asp 2442	Thr Glu Glu 2441 Val	Thr Gly <b>243</b> Ser I <b>0</b> Pro	Glu 2438 Leu 95 Glu Ile	Glu 30 Glu Trp Gln	Tyr Ser Ala 2443	Glu Glu <b>2441</b> Pro	Phe <b>24400</b> Ile I <b>5</b> His
E>	4447 4448 4449 4450 4451 4452 4453 4454	Thr 2438 Arg Ser Phe	Lys 243' Val 85 Val Glu Lys	Gln 70 Phe Lys Pro Glu	Asn Ser Cys Ile 2442 Glu	Lys Val Glu 2440 Thr 20 Leu	Trp Lys 2439 Asn 5 Pro Arg	Ile 2437 Asn 90 Leu Lys Asn	Ser 75 Leu Gly Ser Leu	Val Ile Gly Asp 2442 Asn	Thr Glu Glu 2441 Val Val Val	Thr Gly 2439 Ser LO Pro	Glu 2438 Leu 5 Glu Ile Tyr	Glu Glu Trp Gln Gln	Tyr Ser Ala 2443 Ser	Glu Glu <b>2441</b> Pro	Phe <b>24400</b> Ile I <b>5</b> His
E> E>	4447 4448 4449 4450 4451 4452 4453 4454	Thr 2438 Arg Ser Phe	Lys 243' Val 35 Val Glu Lys	Gln 70 Phe Lys Pro Glu 244:	Asn Ser Cys Ile 2442 Glu 35	Lys Val Glu 2440 Thr 20 Leu	Trp Lys 2439 Asn 55 Pro Arg	Ile 2437 Asn 90 Leu Lys Asn	Ser 75 Leu Gly Ser Leu 244	Val Ile Gly Asp 2442 Asn	Thr Glu Glu 2441 Val Val Val	Thr Gly 2439 Ser IO Pro	Glu 2438 Leu 95 Glu Ile Tyr	Glu Glu Trp Gln Gln 2444	Tyr Ser Ala 2443 Ser	Glu Glu <b>2441</b> Pro <b>30</b> Asn	Phe 24400 Ile 5 His
E> E>	4447 4448 4449 4450 4451 4452 4453 4454 4455 4456	Thr 2438 Arg Ser Phe Thr	Lys 243' Val 35 Val Glu Lys Leu	Gln 70 Phe Lys Pro Glu 244: Val	Asn Ser Cys Ile 2442 Glu 35 Cys	Lys Val Glu 2440 Thr 20 Leu Lys	Trp Lys 2439 Asn 55 Pro Arg Val	Ile 2437 Asn 90 Leu Lys Asn Thr	Ser 75 Leu Gly Ser Leu 244 Gly	Val Ile Gly Asp 2442 Asn 10 His	Thr Glu Glu 2441 Val Val Val Pro	Thr Gly 2439 Ser 0 Pro Arg	Glu 2438 Leu 55 Glu Ile Tyr Pro	Glu 30 Glu Trp Gln Gln 244 Ile	Tyr Ser Ala 2443 Ser	Glu Glu <b>2441</b> Pro <b>30</b> Asn	Phe 24400 Ile 5 His
E> E> E>	4447 4448 4449 4450 4451 4452 4453 4454 4455 4456	Thr 2438 Arg Ser Phe Thr	Lys 243 Val S5 Val Glu Lys Leu 244	Gln 70 Phe Lys Pro Glu 244: Val	Asn Ser Cys Ile 2442 Glu 35 Cys	Lys Val Glu 2440 Thr 20 Leu Lys	Trp Lys 2439 Asn 5 Pro Arg Val	Ile 243 Asn 90 Leu Lys Asn Thr 244	Ser 75 Leu Gly Ser Leu 244 Gly	Val Ile Gly Asp 2442 Asn His	Thr Glu Glu 2441 Val Val Val Pro	Thr Gly 2439 Ser 0 Pro Arg	Glu Leu 5 Glu Ile Tyr Pro 244	Glu 30 Glu Trp Gln Gln 244 Ile	Tyr Ser Ala 2443 Ser Val	Glu Glu 2441 Pro 30 Asn	Phe 24400 Ile 5 His Ala Trp
E> E> E>	4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458	Thr 2438 Arg Ser Phe Thr	Lys 243' Val 85 Val Glu Lys Leu 244! Arg	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln	Asn Ser Cys Ile 2442 Glu 35 Cys Gly	Lys Val Glu 2440 Thr 20 Leu Lys	Trp Lys 2439 Asn 5 Pro Arg Val Glu	Ile 243 Asn 90 Leu Lys Asn Thr 244 Ile	Ser 75 Leu Gly Ser Leu 244 Gly 55	Val Ile Gly Asp 2442 Asn 10 His	Thr Glu Glu 2441 Val Val Pro Asp	Thr Gly 2439 Ser O Pro Arg Lys Gly	Glu Leu 5 Glu Ile Tyr Pro 244 Leu	Glu Glu Trp Gln Gln 2444 Ile 50 Lys	Tyr Ser Ala 2443 Ser Val	Glu Glu 2441 Pro 30 Asn Lys Arg	Phe 24400 Ile 5 His Ala Trp
E> E> E>	4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458	Thr 2438 Arg Ser Phe Thr Tyr 244	Lys 243 Val 35 Val Glu Lys Leu 244 Arg	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys	Lys Val Glu 2440 Thr 20 Leu Lys Gly	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449	Ile 2437 Asn 90 Leu Lys Asn Thr 2449 Ile 70 Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile	Val Ile Gly Asp 2442 Asn 10 His Ala Gln	Thr Glu Glu 2441 Val Val Pro Asp Leu	Thr Gly 2439 Ser 0 Pro Arg Lys Gly 244	Glu Leu 5 Glu Ile Tyr Pro 244 Leu 75 Ile	Glu 30 Glu Trp Gln Gln 244 Ile 60 Lys Ala	Tyr Ser Ala 2443 Ser Val Tyr Ser	Glu Glu 2441 Pro 30 Asn Lys Arg	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr
E> E> E>	4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458 4459 4460 4461	Thr 2438 Arg Ser Phe Thr Tyr 2446 Gln	Lys 243' Val 35 Val Glu Lys Leu 244! Arg 65 Glu	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln Phe	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys	Lys Val Glu 2440 Thr 20 Leu Lys Gly 2440	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449 Gly 85	Ile 2437 Asn 90 Leu Lys Asn Thr 2445 Ile 70 Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile His	Val Ile Gly Asp 2442 Asn 10 His Ala Gln	Thr Glu Glu 2441 Val Val Pro Asp Leu 2449	Thr Gly 2439 Ser 0 Pro Arg Lys Gly 2449 Ile	Glu Leu 5 Glu Ile Tyr Pro 244 Leu 75 Ile	Glu 30 Glu Trp Gln Gln 244 Ile 60 Lys Ala	Tyr Ser Ala 2443 Ser Val Tyr Ser	Glu Glu 2441 Pro 30 Asn Lys Arg Val 2449	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr
E> E> E> E>	4448 4449 4450 4451 4452 4453 4454 4455 4456 4456 4457 4458 4459 4460	Thr 2438 Arg Ser Phe Thr Tyr 2446 Gln	Lys 243' Val 35 Val Glu Lys Leu 244! Arg 65 Glu	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln Phe	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys	Lys Val Glu 2440 Thr 20 Leu Lys Gly 2440	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449 Gly 85	Ile 243 Asn 90 Leu Lys Asn Thr 244 Ile 70 Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile His	Val Ile Gly Asp 2442 Asn 10 His Ala Gln	Thr Glu Glu 2441 Val Val Pro Asp Leu 2449	Thr Gly 2439 Ser 0 Pro Arg Lys Gly 2449 Ile	Glu Leu 5 Glu Ile Tyr Pro 244 Leu 75 Ile	Glu 30 Glu Trp Gln Gln 244 Ile 60 Lys Ala	Tyr Ser Ala 2443 Ser Val Tyr Ser	Glu Glu 2441 Pro 30 Asn Lys Arg Val 2449	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr
E> E> E> E>	4448 4449 4450 4451 4452 4453 4454 4455 4456 4457 4458 4459 4460 4461 4462 4463	Thr 2438 Arg Ser Phe Thr Tyr 244 Gln Asp	Lys 243 Val 35 Val Glu Lys Leu 244! Arg 65 Glu Asp	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln Phe Asp	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys Ala 2450	Lys Val Glu 2440 Thr O Leu Lys Gly 2440 Thr	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449 Gly 85 Val	Ile 243 Asn 90 Leu Lys Asn Thr 244 Ile 70 Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile His	Val Ile Gly Asp 2442 Asn His Ala Gln Val 2450	Thr Glu Glu 2441 Val Val Pro Asp Leu 2449 Arg	Thr Gly 2439 Ser 10 Pro Arg Lys Gly 2447 Ile 00 Ala	Glu 2438 Leu 5 Glu Ile Tyr Pro 2446 Leu 75 Ile Thr	Glu 30 Glu Trp Gln Gln 244 Ile 60 Lys Ala Asn	Tyr Ser Ala 2443 Ser 15 Val Tyr Ser Gln 245	Glu Glu 2441 Pro 30 Asn Lys Arg Val 2449 Gly	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr 5 Gly
E> E> E> E> E>	4448 4449 4450 4451 4453 4454 4455 4456 4457 4458 4459 4460 4461 4462 4463 4464	Thr 2438 Arg Ser Phe Thr Tyr 244 Gln Asp Ser	Lys 243' Val 35 Val Glu Lys Leu 244! Arg 65 Glu Asp Val	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln Phe Asp Ser	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys Ala 2450 Gly	Lys Val Glu 2440 Thr O Leu Lys Gly 2440 Thr O Thr	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449 Gly 85 Val Ala	Ile 2437 Asn 90 Leu Lys Asn Thr 2449 Ile 70 Tyr Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile His Gln Leu	Val Ile Gly Asp 2442 Asn 10 His Ala Gln Val 2450 Glu	Thr Glu Glu 2441 Val Val Pro Asp Leu 2449 Arg Val	Thr Gly 2439 Ser 0 Pro Arg Lys Gly 2447 Ile 0 Ala Glu	Glu 2438 Leu 5 Glu Ile Tyr Pro 2446 Leu 75 Ile Thr	Glu 30 Glu Trp Gln Gln 244 Ile 50 Lys Ala Asn Pro	Tyr Ser Ala 2443 Ser 15 Val Tyr Ser Gln 245: Ala	Glu Glu 2441 Pro 30 Asn Lys Arg Val 2449 Gly Lys	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr Gly Ile
E> E> E> E> E>	4448 4449 4450 4451 4453 4454 4455 4456 4457 4458 4459 4460 4461 4462 4463 4464	Thr 2438 Arg Ser Phe Thr Tyr 244 Gln Asp Ser	Lys 243' Val 35 Val Glu Lys Leu 244! Arg 65 Glu Asp Val	Gln 70 Phe Lys Pro Glu 244: Val 50 Gln Phe Asp Ser	Asn Ser Cys Ile 2442 Glu 35 Cys Gly Lys Ala 2450 Gly	Lys Val Glu 2440 Thr O Leu Lys Gly 2440 Thr O Thr	Trp Lys 2439 Asn 5 Pro Arg Val Glu 2449 Gly 85 Val Ala	Ile 2437 Asn 90 Leu Lys Asn Thr 2449 Ile 70 Tyr Tyr	Ser 75 Leu Gly Ser Leu 244 Gly 55 Ile His Gln Leu	Val Ile Gly Asp 2442 Asn 10 His Ala Gln Val 2450 Glu	Thr Glu Glu 2441 Val Val Pro Asp Leu 2449 Arg Val	Thr Gly 2439 Ser 0 Pro Arg Lys Gly 2447 Ile 0 Ala Glu	Glu 2438 Leu 5 Glu Ile Tyr Pro 2446 Leu 75 Ile Thr	Glu 30 Glu Trp Gln Gln 244 Ile 50 Lys Ala Asn Pro	Tyr Ser Ala 2443 Ser 15 Val Tyr Ser Gln 245: Ala	Glu Glu 2441 Pro 30 Asn Lys Arg Val 2449 Gly Lys	Phe 24400 Ile 5 His Ala Trp Ile 24480 Thr Gly Ile

	4466	His	Leu	Pro	Lys	Thr	Leu	Glu	Gly	Met	Gly	Ala	Val	His	Ala	Leu	Arg
E>	4467		2453	30				2453	35				2454	10			
	4468	Gly	Glu	Val	Val	Ser	Ile	Lys	Ile	Pro	Phe	Ser	Gly	Lys	Pro	Asp	Pro
E>	4469	2454	45				245	50				2455	55				24560
	4470	Val	Ile	Thr	Trp	Gln	Lys	Gly	${\tt Gln}$	Asp	Leu	Ile	Asp	Asn	Asn	Gly	His
E>	4471					2456	55				2457	70				2457	15
	4472	Tyr	Gln	Val	Ile	Val	Thr	Arg	Ser	Phe	Thr	Ser	Leu	Val	Phe	Pro	Asn
E>	4473				2458	30				2458	35				2459	90	
	4474														Ala	Lys	Asn
E>	4475	_		2459	<b>9</b> 5 ¯	_	_		2460	00	_			2460	)5	_	
	4476	Arg	Phe	Gly	Ile	Asp	Gln	Lys	Thr	Val	Glu	Leu	Asp	Val	Ala	Asp	Val
E>		_				_		_					-			-	
	4478														Arg	Asp	Ser
E>			_			_	_					-			_		24640
	4480												Gly	Gly	Ser	Lys	Ile
E>	4481					2464	15				2465	50 ¯	-	_		2465	55
	4482	Thr	Asn	Tyr	Ile	Val	Glu	Lys	Cys	Ala	Thr	Thr	Ala	Glu	Arg	Trp	Leu
E>				-				_							2467	_	
	4484														Asn	Leu	Phe
E>		_		_			_			_	_			2468			
	4486															Phe	Gly
E>		_	_			-			_						-		-
	4488														Lys	Glu	Asp
E>																	24720
	4.490																
E>		_		_				-					_			2473	
	4492	Val	Ser	Met	Thr	Lys	Ala	Ser	His	Ser	Ser	Thr	Lys	Glu	Leu	Tyr	Glu
E>	4493				2474	10				2474	15		_		2475	50	
	4494	T	_	Mot							-	C1	~ 7	Dho	~ 1		Val
	4 - 2 - 2	ьys	Tyr	1.10 C	Ile	Ala	Glu	Asp	Leu	GLy	Arg	GTA	Glu	Pne	GLy	Ile	
E>		-	-	2475				-		QTA	_	_		2476	•••	Ile	
E>		-	-	2475	55			-	2476	50	_	_		2476	55		Phe
E>	<b>4495</b> 4496	His	Arg	2475	5 <b>5</b> Val	Glu	Thr	Ser	<b>247</b> 6 Ser	50	Lys	Thr		<b>2476</b> Met	55		Phe
	<b>4495</b> 4496	His	Arg <b>247</b> 7	<b>247</b> 5 Cys 70	5 <b>5</b> Val	Glu	Thr	Ser 2477	<b>247</b> 6 Ser 7 <b>5</b>	Lys	Lys	Thr	Tyr <b>247</b> 8	<b>247</b> 6 Met <b>80</b>	55 Ala	Lys	
	<b>4495</b> 4496 <b>4497</b> 4498 <b>4499</b>	His Val <b>2478</b>	Arg <b>247</b> 7 Lys <b>35</b>	<b>247</b> Cys 7 <b>0</b> Val	5 <b>5</b> Val Lys	Glu Gly	Thr Thr 2479	Ser <b>247</b> 7 Asp	<b>247</b> 6 Ser <b>75</b> Gln	Lys Val	Lys Leu	Thr Val	Tyr <b>2478</b> Lys <b>5</b>	<b>2476</b> Met <b>80</b> Lys	Ala Glu	Lys Ile	Ser <b>24800</b>
E>	<b>4495</b> 4496 <b>4497</b> 4498	His Val <b>2478</b>	Arg <b>247</b> 7 Lys <b>35</b>	<b>247</b> Cys 7 <b>0</b> Val	5 <b>5</b> Val Lys	Glu Gly	Thr Thr 2479	Ser <b>247</b> 7 Asp	<b>247</b> 6 Ser <b>75</b> Gln	Lys Val	Lys Leu	Thr Val	Tyr <b>2478</b> Lys <b>5</b>	<b>2476</b> Met <b>80</b> Lys	Ala Glu	Lys Ile	Ser <b>24800</b>
E>	<b>4495</b> 4496 <b>4497</b> 4498 <b>4499</b> 4500	His Val 2478 Ile	Arg <b>247</b> 7 Lys <b>35</b> Leu	2475 Cys 70 Val Asn	Val Lys Ile	Glu Gly Ala	Thr Thr 2479 Arg	Ser <b>247</b> 7 Asp	<b>247</b> 6 Ser <b>75</b> Gln Arg	Lys Val Asn	Lys Leu Ile	Thr Val 2479 Leu	Tyr <b>2478</b> Lys <b>5</b> His	2476 Met 80 Lys Leu	Ala Glu His	Lys Ile	Ser <b>24800</b> Ser
E> E>	4495 4496 4497 4498 4499 4500 4501 4502	His Val 2478 Ile Phe	Arg <b>247</b> Lys <b>35</b> Leu Glu	2475 Cys 70 Val Asn Ser	Val Lys Ile Met	Glu Gly Ala 2480 Glu	Thr Thr <b>2479</b> Arg <b>5</b> Glu	Ser 2477 Asp 0 His	2476 Ser 75 Gln Arg	Lys Val Asn	Lys Leu Ile 2481	Thr Val <b>247</b> 9 Leu	Tyr <b>2478</b> Lys <b>95</b> His	2476 Met 30 Lys Leu	Ala Glu His	Lys Ile Glu <b>2481</b>	Ser <b>24800</b> Ser . <b>5</b>
E>	4495 4496 4497 4498 4499 4500 4501 4502	His Val 2478 Ile Phe	Arg <b>247</b> Lys <b>35</b> Leu Glu	2475 Cys 70 Val Asn Ser	Val Lys Ile Met	Glu Gly Ala 2480 Glu	Thr Thr <b>2479</b> Arg <b>5</b> Glu	Ser 2477 Asp 0 His	2476 Ser 75 Gln Arg	Lys Val Asn Met	Lys Leu Ile 2481	Thr Val 2479 Leu 0 Phe	Tyr <b>2478</b> Lys <b>95</b> His	2476 Met 30 Lys Leu Phe	Ala Glu His	Lys Ile Glu <b>2481</b> Ser	Ser <b>24800</b> Ser . <b>5</b>
E> E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504	His Val 2478 Ile Phe Leu	Arg 2477 Lys 35 Leu Glu Asp	Cys 70 Val Asn Ser	Val Lys Ile Met 2482 Phe	Glu Gly Ala 2480 Glu 20 Glu	Thr Thr 2479 Arg S Glu Arg	Ser 2477 Asp 0 His Leu	2476 Ser 5 Gln Arg Val	Lys Val Asn Met 2482	Lys Leu Ile 2481 Ile	Thr Val 2479 Leu LO Phe	Tyr 2478 Lys 5 His Glu	2476 Met 30 Lys Leu Phe	Ala Glu His Ile 2483	Lys Ile Glu <b>2481</b> Ser	Ser <b>24800</b> Ser . <b>5</b> Gly
E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504	His Val 2478 Ile Phe Leu	Arg 2477 Lys 35 Leu Glu Asp	Cys 70 Val Asn Ser	Val Lys Ile Met 2482 Phe	Glu Gly Ala 2480 Glu 20 Glu	Thr Thr 2479 Arg S Glu Arg	Ser 2477 Asp 0 His Leu	2476 Ser 5 Gln Arg Val	Lys Val Asn Met 2482 Thr	Lys Leu Ile 2481 Ile S5 Ser	Thr Val 2479 Leu 0 Phe	Tyr 2478 Lys 5 His Glu	2476 Met 30 Lys Leu Phe	Ala Glu His Ile 2483 Leu	Lys Ile Glu <b>2481</b> Ser	Ser <b>24800</b> Ser . <b>5</b> Gly
E> E> E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506	His Val 2478 Ile Phe Leu Arg	Arg 2477 Lys 35 Leu Glu Asp Glu	Cys 70 Val Asn Ser Ile 2483 Ile	Val Lys Ile Met 2482 Phe S5 Val	Glu Gly Ala 2480 Glu 20 Glu Ser	Thr 2479 Arg 5 Glu Arg Tyr	Ser 2477 Asp 0 His Leu Ile	2476 Ser 5 Gln Arg Val Asn 2484 His	Lys Val Asn Met 2482 Thr 10 Gln	Lys Leu Ile 2481 Ile Ser Val	Thr Val 2479 Leu 0 Phe Ala	Tyr 2478 Lys 5 His Glu Phe Glu	Met Met O Lys Leu Phe Glu 2484 Ala	Ala Glu His Ile 2483 Leu	Lys Ile Glu <b>2481</b> Ser <b>30</b> Asn	Ser 24800 Ser .5 Gly Glu
E> E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506	His Val 2478 Ile Phe Leu Arg	Arg 2477 Lys 35 Leu Glu Asp Glu	Cys 70 Val Asn Ser Ile 2483 Ile	Val Lys Ile Met 2482 Phe S5 Val	Glu Gly Ala 2480 Glu 20 Glu Ser	Thr 2479 Arg 5 Glu Arg Tyr	Ser 2477 Asp 0 His Leu Ile	2476 Ser 5 Gln Arg Val Asn 2484 His	Lys Val Asn Met 2482 Thr 10 Gln	Lys Leu Ile 2481 Ile Ser Val	Thr Val 2479 Leu 0 Phe Ala	Tyr 2478 Lys 5 His Glu Phe Glu	Met Met O Lys Leu Phe Glu 2484 Ala	Ala Glu His Ile 2483 Leu	Lys Ile Glu <b>2481</b> Ser <b>30</b> Asn	Ser 24800 Ser .5 Gly Glu
E> E> E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506	His Val 2478 Ile Phe Leu Arg	Arg 2477 Lys 35 Leu Glu Asp Glu 2485	2475 Cys 70 Val Asn Ser Ile 2483 Ile	Val Lys Ile Met 2482 Phe Val	Glu Gly Ala 2480 Glu 20 Glu Ser	Thr 2479 Arg 5 Glu Arg Tyr	Ser 2477 Asp 0 His Leu Ile Val 2485	2476 Ser 75 Gln Arg Val Asn 2484 His	Lys Val Asn Met 2482 Thr Gln	Lys Leu Ile 2481 Ile Ser Val	Thr Val 2479 Leu 0 Phe Ala Cys	Tyr 2478 Lys 5 His Glu Phe Glu 2486	Met Met O Lys Leu Phe Glu 2484 Ala	Ala Glu His Ile 2483 Leu 15 Leu	Lys Ile Glu 2481 Ser 30 Asn	Ser 24800 Ser 5 Gly Glu Phe
E> E> E> E>	4495 4496 4497 4498 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509	His Val 2478 Ile Phe Leu Arg Leu 2486	Arg 2477 Lys 35 Leu Glu Asp Glu 2485 His	Cys 70 Val Asn Ser Ile 2483 Ile 50 Ser	Val Lys Ile Met 2482 Phe S5 Val	Glu Gly Ala 2480 Glu 20 Glu Ser Asn	Thr 2479 Arg 5 Glu Arg Tyr Ile 2487	Ser 2477 Asp 0 His Leu Ile Val 2485 Gly	2476 Ser 5 Gln Arg Val Asn 2484 His His	Lys Val Asn Met 2482 Thr O Gln	Lys Leu Ile 2481 Ile Ser Val Asp	Thr Val 2479 Leu 0 Phe Ala Cys . Ile 2487	Tyr 2478 Lys 5 His Glu Phe Glu 2486 Arg	Met Met Lys Leu Phe Glu 2484 Ala O Pro	Ala Glu His Ile 2483 Leu 15 Leu Glu	Lys Ile Glu 2481 Ser O Asn Gln Asn	Ser 24800 Ser 5 Gly Glu Phe Ile 24880
E> E> E> E> E>	4495 4496 4497 4498 4499 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510	His Val 2478 Ile Phe Leu Arg Leu 2486 Ile	Arg 2477 Lys 35 Leu Glu Asp Glu 2485 His 55	Cys 70 Val Asn Ser Ile 2483 Ile 50 Ser Gln	Val Lys Ile Met 2482 Phe 35 Val His	Glu Gly Ala 2480 Glu 20 Glu Ser Asn Arg	Thr 2479 Arg 5 Glu Arg Tyr Ile 2487 Arg	Ser 2477 Asp 0 His Leu Ile Val 2485 Gly 70 Ser	Ser Ser Ser Ser Val Asn 2484 His Ser	Lys Val Asn Met 2482 Thr O Gln Phe	Lys Leu Ile 2481 Ile 25 Ser Val Asp Ile	Thr Val 2479 Leu 0 Phe Ala Cys . Ile 2487	Tyr 2478 Lys 5 His Glu Phe Glu 2486 Arg	Met Met Lys Leu Phe Glu 2484 Ala O Pro	Ala Glu His Ile 2483 Leu I5 Leu Glu Glu	Lys Ile Glu 2481 Ser 30 Asn Gln Asn Phe	Ser 24800 Ser 5 Gly Glu Phe Ile 24880 Gly
E> E> E> E>	4495 4496 4497 4498 4500 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511	His Val 2478 Ile Phe Leu Arg Leu 2486 Ile	Arg 2477 Lys 35 Leu Glu Asp Glu 2485 His 55	Cys 70 Val Asn Ser Ile 2483 Ile 50 Ser Gln	Val Lys Ile Met 2482 Phe S Val His	Glu Gly Ala 2480 Glu CO Glu Ser Asn Arg 2488	Thr 2479 Arg 5 Glu Arg Tyr Ile 2487 Arg	Ser 2477 Asp 0 His Leu Ile Val 2485 Gly 70 Ser	2476 Ser 75 Gln Arg Val Asn 2484 His 55 His	Val Asn Met 2482 Thr O Gln Phe	Lys Leu Ile 2481 Ile Ser Val Asp Ile 2489	Thr Val 2479 Leu 0 Phe Ala Cys . Ile 2487	Tyr 2478 Lys 5 His Glu Phe Glu 2486 Arg 11e	2476 Met 30 Lys Leu Phe Glu 2484 Ala 50 Pro	Ala Glu His Ile 2483 Leu IS Leu Glu Glu	Lys Ile Glu 2481 Ser 30 Asn Gln Asn Phe 2489	Ser 24800 Ser 5 Gly Glu Phe Ile 24880 Gly 5
E> E> E> E> E> E>	4495 4496 4497 4498 4499 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511 4512	His Val 2478 Ile Phe Leu Arg Leu 2486 Ile Gln	Arg 2477 Lys 35 Leu Glu Asp Glu 2485 His 55 Tyr	Cys 70 Val Asn Ser Ile 2483 Ile 50 Ser Gln Arg	Val Lys Ile Met 2482 Phe So Val His Thr	Glu Gly Ala 2480 Glu O Glu Ser Asn Arg 2488 Leu	Thr 2479 Arg 5 Glu Arg Tyr Ile 2487 Arg 5 Lys	Ser 2477 Asp 0 His Leu Ile Val 2485 Gly 70 Ser Pro	2476 Ser 75 Gln Arg Val Asn 2484 His 55 His Gly	Lys Val Asn Met 2482 Thr O Gln Phe Thr	Lys Leu Ile 2481 Ile Ser Val Asp Ile 2489 Asn	Thr Val 2479 Leu 0 Phe Ala Cys . Ile 2487 Lys 0 Phe	Tyr 2478 Lys 5 His Glu Phe Glu 2486 Arg 75 Ile Arg	Met Met Lys Leu Phe Glu 2484 Ala O Pro Ile Leu	Ala Glu His Ile 2483 Leu Slu Glu Glu Leu Leu	Lys Ile Glu 2481 Ser O Asn Gln Asn Phe 2489 Phe	Ser 24800 Ser 5 Gly Glu Phe Ile 24880 Gly 5
E> E> E> E> E> E> E>	4495 4496 4497 4498 4499 4501 4502 4503 4504 4505 4506 4507 4508 4509 4510 4511 4512	His Val 2478 Ile Phe Leu Arg Leu 2486 Ile Gln	Arg 2477 Lys 35 Leu Glu Asp Glu 2485 His 55 Tyr	Cys 70 Val Asn Ser Ile 2483 Ile 50 Ser Gln Arg	Val Lys Ile Met 2482 Phe 35 Val His Thr Gln 2490	Glu Gly Ala 2480 Glu CO Glu Ser Asn Arg 2488 Leu O	Thr 2479 Arg 5 Glu Arg Tyr Ile 2487 Arg 5 Lys	Ser 2477 Asp O His Leu Ile Val 2485 Gly 70 Ser Pro	2476 Ser 5 Gln Arg Val Asn 2484 His 5 His Gly	Val Asn Met 2482 Thr OGln Phe Thr Asp 2490	Lys Leu Ile 2481 Ile 5 Ser Val Asp Ile 2489 Asn	Thr Val 2479 Leu 0 Phe Ala Cys . Ile 2487 Lys 0 Phe	Tyr 2478 Lys 5 His Glu Phe Glu 2486 Arg Tyr	Met Met Lys Leu Phe Glu 2484 Ala O Pro Ile Leu	Ala Glu His Ile 2483 Leu IS Leu Glu Glu Leu 2491	Lys Ile Glu 2481 Ser O Asn Gln Asn Phe 2489 Phe	Ser 24800 Ser 5 Gly Glu Phe Ile 24880 Gly 5 Thr

4516 Thr Ala Thr Asp Met Trp Ser Leu Gly Thr Leu Val Tyr Val Leu Leu Fe 4517	E>	4515			2491	15				2492	20				2492	25		
E 4517 24930 24945 24945 24955 24960  4518 Ser Gly Ile Met Asn Pro Phe Leu Ala Glu Thr Asn Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu A520 Asn Asn Asp A521 Asn Asn Asp Asp Glu Leu Wal Lys Glu A520 Asn Asn Asp A521 Asn Asn Asp Asp Glu Leu Wal Lys Glu A520 Asn Asn Asp A521 Asn Asn Asp Asp Glu Lys Glu Asn Ash		4516	Thr	Ala	Thr	Asp	Met	Trp	Ser	Leu	Gly	Thr	Leu	Val	Tyr	Val	Leu	Leu
4518 Ser Gly Ile Asn Pro Phe Leu Ala Glu Thr Asn Gln Gln Ile Ile Glu Ago 4519 24945 24950 24950 24950 24970 24975  4520 Asn Ile Met Asn Ala Glu Tyr Thr Phe Asp Glu Glu Ala Phe Lys Glu E-> 4521 Ile Ser Ile Glu Ala Met Asp Phe Val Asp Arg Leu Leu Val Lys Glu E-> 4522 Ile Ser Ile Glu Ala Met Asp Phe Val Asp Arg Leu Leu Val Lys Glu E-> 4523 Arg Lys Ser Arg Met Thr Ala Ser Glu Ala Leu Glu His Pro Tr Leu Lys Glu E-> 4525 24995 25000 25005 25005 25000 4526 Arg Arg Lys Ser Arg Met Thr Ala Ser Glu Ala Leu Glu His Pro Tr Leu Lys Clu Asp Arg Leu Leu Val Lys Glu Lys Ile Glu Arg Val Ser Thr Lys Val Ile Arg Thr Leu Lys Clu Asp Arg Ry Ser Arg Arg Tyr Tyr His Thr Leu Ile Lys Lys Asp Leu Asn Met Val Asp Arg Ry Val Ser Ala Ala Arg Ile Ser Cys Glg Gly Ala Ile Arg Shr Lys Ser Glu Lys Ser Asp Arg Ile Lys Val Arg Ile Arg Ser Glu Lys Ser Glu Lys Ser Glu Lys Ser Asp Arg Ile Ser Cys Glg Gly Ala Ile Arg Shr Lys Val Asp Arg Gly Ala Ile Arg Shr Lys Val Asp	E>					_		_			-				_			
																	Ile	Glu
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Second   S																		
## 4522 Ile Ser Ile Glu Ala Met Asp Phe Val Asp Arg Leu Leu Val Lys Glu E> 4524 Arg Lys Ser Arg Met Thr Ala Ser Glu Ala Leu Gln His Pro Trp Leu E> 4526	E>								_			-					_	
Second   S																		
## Ser Arg Met Thr Ala Ser Glu Ala Leu Gln His Pro Trp Leu 25005	<b>モー</b> ->																	
E> 4525																		Leu
## Second Result	F>		_	_		_											12	200
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## A	E>			_	_	_	_					_	_	_				
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E> 4535	E'>															•	-	ひっし
## A S S C Lys Tyr Val Cys Lys I Le Glu Asn Tyr Asp Gln Ser Thr Gln Val Thr    E>   4537   25090   25095   25100     4538	to \				-											_	1112	Val
E> 4537	E>																1701	Thγ
## A538 Trp Tyr Phe Gly Val Arg Gln Leu Glu Asn Ser Glu Lys Tyr Glu Ile  ## A549 25105	E >		-	-		_	_				_					GTII	val	1111
Second   S	ピーーン															Фил	C1,,	Tlo
## A540 The Tyr Glu Asp Gly Val Ala 1le Leu Tyr Val Lys Asp Ile The Lys  ## A542 Leu Asp Asp Gly The Tyr Arg Cys Lys Val Val Asn Asp Tyr Gly Glu  ## A543 Leu Asp Asp Gly The Tyr Arg Cys Lys Val Val Asn Asp Tyr Gly Glu  ## A544 Asp Ser Ser Tyr Ala Glu Leu Phe Val Lys Gly Val Arg Glu Val Tyr  ## A545 Leu Asp Tyr Tyr Cys Arg Arg The Met Lys Lys Gly Val Arg Glu Val Tyr  ## A546 Asp Tyr Tyr Cys Arg Arg The Met Lys Lys Ile Lys Arg Arg The Asp  ## A548 The Met Arg Leu Leu Glu Arg Pro Pro Glu Phe The Leu Pro Leu Tyr  ## A549 Asp E> 4546 The Met Arg Leu Leu Glu Arg Pro Pro Pro Glu Phe The Leu Pro Leu Tyr  ## A549 Asp Lys The Ala Tyr Val Gly Glu Asn Val Arg Phe Gly Val The Ile  ## A550 Asn Lys The Ala Tyr Val Gly Glu Asn Val Arg Phe Gly Val The Ile  ## A551 Lys The Val His Pro Glu Pro His Val The Trp Tyr Lys Ser Gly Gln Lys  ## A552 The Val His Pro Gly Asp Asn Asp Lys Lys Tyr The Phe Glu Ser Asp Lys  ## A553 Leu Tyr Gln Leu The Ile Asn Ser Val The The Asp Asp Asp Ala  ## A554 Asp Leu Tyr Gln Leu The Ile Asn Ser Val The The Asp Asp Asp Ala  ## A558 Glu Tyr The Val Val Ala Arg Asn Lys Tyr Gly Glu Asp Ser Cys Lys  ## A558 Glu Tyr The Val Val Ala Arg Asn Lys Tyr Gly Glu Asp Ser Cys Lys  ## A559 Asp Asa Asp Ash Asp Lys Tyr Gly Glu Asp Ser Cys Lys  ## A559 Asp Asa Asp Ash Asp Lys Tyr Gly Glu Asp Ser Cys Lys  ## A559 Asp Asa Asp Ash Asp Lys Tyr Gly Glu Asp Ser Cys Lys  ## A559 Asp Asa Asp Ash Lys Tyr Lys Cys The Leu  ## A550 Asa Lys Leu The Val Ala Arg Asn Lys Tyr Gly Glu Asp Ser Cys Lys  ## A550 Asa Lys Leu The Val The Leu His Pro Pro Pro The Asp Ser The Leu  ## A550 Asa Lys Leu The Val The Leu His Pro Pro The Asp Ser The Leu  ## A550 Asp Cys Lys Asp Ash Asp Leu His Pro Pro The Asp Ser The Leu  ## A550 Asp Cys Lys Asp Ash Asp Leu His Pro Pro The Asp Ser The Leu  ## A550 Asp Cys Lys Asp Ash Asp Leu His Pro Pro The Asp Ser The Leu  ## A560 Asp Cys Lys Asp Cys Asp Leu His Pro Bro Pro The Asp Ser The Leu  ## A560 Asp Cys Lys Asp Cys Asp Leu His Pro Bro Pro The Asp Ser The Leu  ## A560 Asp Cys Lys Asp Asp Asp Leu Leu His Pro Bro		4550	11b	ı At	rne	GTÀ	val	Ary	GTII	ьeu	GIU	ASII	261	GIU IE	nys	тАт	GIU	3213U
E> 4541	ピーーン																	
## 4542 Leu Asp Asp Gly Thr Tyr Arg Cys Lys Val Val Asn Asp Tyr Gly Glu 25140	D >			_		-	_					_		_	_			-
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### Page 1454	E>																_	Тых
### Parameter   Pa	п 、		-			_						_	_		_		val	ıyı
E> 4547	ピューン															_	Ψh.~	7) cm
4548 Thr Met Arg Leu Leu Glu Arg Pro Pro Glu Phe Thr Leu Pro Leu Tyr  4549 25185	TT \		-	-	_	_	_	_			_	_			_	Ary	1111	АЗР
25195   25195   25200   25205   25210   25215   25200   25215   25200   25215   25200   25215   25210   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   25215   252	ピーーン															Dro	Ton	TP s race
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E> 4551	ピーーン																	
### Application of the content of th				_					_									
E> 4553	ビーー>																	
## A554   The Lys   Pro Gly   Asp   Asp   Asp   Lys   Lys   Tyr   Thr   Phe   Glu   Ser   Asp   Lys    ## A555   A552   A553   Asp    ## A556   Gly   Leu   Tyr   Gln   Leu   Thr   Ile   Asn   Ser   Val   Thr   Thr   Asp   Asp   Asp   Ala    ## A558   Glu   Tyr   Thr   Val   Val   Ala   Arg   Asn   Lys   Tyr   Gly   Glu   Asp   Ser   Cys   Lys    ## A559   A559   A556   Asp   Leu   Thr   Val   Thr   Leu   His   Pro   Pro   Pro   Thr   Asp   Ser   Thr   Leu    ## A562   Arg   Pro   Met   Phe   Lys   Arg   Leu   Leu   Ala   Asn   Ala   Glu   Cys   Gln   Glu   Gly    ## A564   Glu   Cys   Gln   Glu   Gly    ## A565   Asp   Pro   Met   Phe   Lys   Arg   Leu   Leu   Ala   Asn   Ala   Glu   Cys   Gln   Glu   Gly    ## A566   Glu   Ser   Asp   Leu   Asp   Leu   Ala   Asn   Ala   Glu   Cys   Gln   Glu   Gly    ## A567   Asp   Pro   Met   Phe   Lys   Arg   Leu   Leu   Ala   Asn   Ala   Glu   Cys   Gln   Glu   Gly    ## A568   Glu   Ser   Asp   Asp   Leu   Asp    ## A568   Asp   Pro   Met   Phe   Lys   Arg   Leu   Leu   Ala   Asp    ## A568   Asp   As												-	_	_		_		тұѕ
E> 4555 Gly Leu Tyr Gln Leu Thr Ile Asn Ser Val Thr Thr Asp Asp Asp Ala E> 4557 25250	E>																	T
4556 Gly Leu Tyr Gln Leu Thr Ile Asn Ser Val Thr Thr Asp Asp Asp Ala  E> 4557	_			-													Asp	Lys
E> 4557 25250 25255 25260  4558 Glu Tyr Thr Val Val Ala Arg Asn Lys Tyr Gly Glu Asp Ser Cys Lys  E> 4559 25265 25270 25275 25280  4560 Ala Lys Leu Thr Val Thr Leu His Pro Pro Pro Thr Asp Ser Thr Leu  E> 4561	E>																<b>.</b>	7.7
4558 Glu Tyr Thr Val Val Ala Arg Asn Lys Tyr Gly Glu Asp Ser Cys Lys  E> 4559 25265																Asp	Asp	Ala
E> 4559 25265 25270 25275 25280  4560 Ala Lys Leu Thr Val Thr Leu His Pro Pro Pro Thr Asp Ser Thr Leu  E> 4561 25285 25290 25295  4562 Arg Pro Met Phe Lys Arg Leu Leu Ala Asn Ala Glu Cys Gln Glu Gly	E>															_	_	_
4560 Ala Lys Leu Thr Val Thr Leu His Pro Pro Pro Thr Asp Ser Thr Leu  E> 4561				_					_		_	_	_		_		_	<del>-</del>
E> 4561	E>																	
4562 Arg Pro Met Phe Lys Arg Leu Leu Ala Asn Ala Glu Cys Gln Glu Gly				_														
	E>																	
E> 4563 25300 25305 25310			Arg	Pro	Met		_	Arg	Leu	Leu			Ala	GLu	Cys			GLY
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P>	4564															Pro	Thr
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E>											2537						
	4572						-								_		Arg
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	4574	<del>-</del>	-	-				_							_	His	Val
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	4576														Leu	Ser	Gly
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	4578											_				_	
E>																	25440
	4580					_	-						_			_	_
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	4582									_	_			_	_		Arg
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	4584			_	_					_	_	-	-			Thr	Ile
E>	4585			2547	75				2548	30				2548	35		
	4586	Glu	Glu	Asp	Gln	Arg	Ile	Lys	Gln	Phe	Val	Pro	Met	Ser	Asp	Met	Lys
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	4588	Trp	Tyr	Lys	Lys	Ile	Arg	Asp	Gln	Tyr	Glu	Met	Pro	Gly	Lys	Leu	Asp
E>	4589	2550	)5				2551	10				2551	.5				25520
	4590	Arg	Val	Val	Gln	Lys	Arg	Pro	Lys	Arg	Ile	Arg	Leu	Ser	Arg	Trp	Glu
E>	4591					2552	25				2553	30				2553	35
	4592	Gln	Phe	Tyr	Val	Met	Pro	Leu	Pro	Arg	Ile	Thr	Asp	Gln	Tyr	Arg	Pro
E>															2555	_	
	4594	Lys	Trp	Arg	Ile	Pro	Lys	Leu	Ser	Gln	Asp	Asp	Leu	Glu	Ile	Val	Arg
E>	4595			2555	55				2556	50				2556	55		
	4596	Pro	Ala	Arg	Arg	Arg	Thr	Pro	Ser	Pro	Asp	Tvr	Asp	Phe	Tyr	Tyr	Arg
E>	4597		255	70				A = E =			-		T.		-		
	4598	_		_				2557	<b>7</b> 5		•	_	2558		-		
E>	1000	Pro	Arg		Arg								2558	30	_	Leu	Leu
	4599		_	Arg	Arg	Ser	Leu		Asp	Ile	Ser	Asp	<b>2558</b> Glu	8 <b>0</b> Glu	_		Leu <b>25600</b>
		2558	35	Arg	Arg	Ser	Leu <b>255</b> 9	Gly 90	Asp	Ile	Ser	Asp <b>255</b> 9	<b>2558</b> Glu <b>5</b>	3 <b>0</b> Glu	Leu		25600
E>	<b>4599</b> 4600	<b>2558</b> Pro	35 Ile	Arg	Arg Asp	Ser Tyr	Leu <b>255</b> 9 Leu	Gly 90	Asp Met	Ile Lys	Ser Arg	Asp <b>255</b> 9	<b>2558</b> Glu <b>5</b> Glu	Glu Glu	Leu Glu		<b>25600</b> Leu
	<b>4599</b> 4600	<b>2558</b> Pro	35 Ile	Arg Asp	Arg Asp	Ser Tyr <b>256</b> 0	Leu <b>255</b> 9 Leu <b>5</b>	Gly 90 Ala	Asp Met	Ile Lys	Ser Arg <b>2561</b>	Asp <b>2559</b> Thr	<b>2558</b> Glu <b>95</b> Glu	Glu Glu	Leu Glu	Arg <b>2561</b>	<b>25600</b> Leu . <b>5</b>
	<b>4599</b> 4600 <b>4601</b> 4602	<b>2558</b> Pro	Ile Leu	Arg Asp Glu	Arg Asp Glu	Ser Tyr <b>2560</b> Glu	Leu 2559 Leu 5 Leu	Gly 00 Ala Glu	Asp Met Leu	Ile Lys Gly	Ser Arg 2561 Phe	Asp 2559 Thr .0 Ser	2558 Glu 95 Glu Ala	Glu Glu Ser	Leu Glu Pro	Arg <b>2561</b> Pro	<b>25600</b> Leu . <b>5</b>
E>	<b>4599</b> 4600 <b>4601</b> 4602	<b>2558</b> Pro	Ile Leu	Arg Asp Glu	Arg Asp Glu 2562	Ser Tyr <b>2560</b> Glu	Leu <b>2559</b> Leu <b>5</b> Leu	Gly 00 Ala Glu	Asp Met Leu	Ile Lys Gly <b>2562</b>	Ser Arg 2561 Phe	Asp 2559 Thr .0 Ser	2558 Glu 95 Glu Ala	Glu Glu Ser	Leu Glu Pro 2563	Arg <b>2561</b> Pro	<b>25600</b> Leu . <b>5</b> Ser
E>	<b>4599</b> 4600 <b>4601</b> 4602 <b>4603</b> 4604	<b>2558</b> Pro	Ile Leu Ser	Arg Asp Glu Pro	Arg Asp Glu 2562	Ser Tyr 2560 Glu 20 His	Leu 2559 Leu 5 Leu Phe	Gly OO Ala Glu	Asp Met Leu Leu	Ile Lys Gly <b>2562</b> Ser	Ser Arg 2561 Phe 25 Ser	Asp 2559 Thr .0 Ser	2558 Glu 5 Glu Ala Arg	Glu Glu Ser	Leu Glu Pro 2563 Ser	Arg <b>2561</b> Pro	<b>25600</b> Leu . <b>5</b> Ser
E>	<b>4599</b> 4600 <b>4601</b> 4602 <b>4603</b> 4604	2558 Pro Arg Arg	Ile Leu Ser	Arg Asp Glu Pro 2563	Arg Asp Glu 2562 Pro	Ser Tyr 2560 Glu 20 His	Leu 2559 Leu 5 Leu Phe	Gly 00 Ala Glu Glu	Asp Met Leu Leu 2564	Ile Lys Gly <b>2562</b> Ser	Ser Arg <b>2561</b> Phe <b>25</b> Ser	Asp 2559 Thr .0 Ser	2558 Glu 5 Glu Ala Arg	Glu Glu Ser Tyr 2564	Leu Glu Pro <b>2563</b> Ser	Arg <b>2561</b> Pro <b>30</b> Ser	<b>25600</b> Leu . <b>5</b> Ser Pro
E>	4599 4600 4601 4602 4603 4604 4605 4606	2558 Pro Arg Arg	Ile Leu Ser	Arg Asp Glu Pro 2563	Arg Asp Glu 2562 Pro	Ser Tyr 2560 Glu 0 His	Leu 2559 Leu 5 Leu Phe Val	Gly O Ala Glu Glu	Asp Met Leu Leu 2564 Glu	Ile Lys Gly <b>2562</b> Ser O	Arg 2561 Phe 25 Ser Arg	Asp 2559 Thr .0 Ser Leu Lys	2558 Glu 5 Glu Ala Arg	Glu Glu Ser Tyr 2564 Phe	Leu Glu Pro <b>2563</b> Ser	Arg <b>2561</b> Pro <b>30</b> Ser	<b>25600</b> Leu . <b>5</b> Ser Pro
E> E>	4599 4600 4601 4602 4603 4604 4605 4606	2558 Pro Arg Arg	Ile Leu Ser Ala 256	Arg Asp Glu Pro 2563 His	Arg Asp Glu 2562 Pro 35 Val	Ser Tyr 2560 Glu 0 His	Leu 2559 Leu 5 Leu Phe Val	Gly 0 Ala Glu Glu 2565	Asp Met Leu Leu 2564 Glu	Ile Lys Gly <b>2562</b> Ser O	Arg 2561 Phe 25 Ser Arg	Asp 2559 Thr .0 Ser Leu Lys	2558 Glu 5 Glu Ala Arg Asn 2566	Glu Glu Ser Tyr 2564 Phe	Leu Glu Pro <b>2563</b> Ser <b>15</b> Arg	Arg 2561 Pro 30 Ser	25600 Leu .5 Ser Pro
E> E>	4599 4600 4601 4602 4603 4604 4605 4606 4607 4608	2558 Pro Arg Arg Gln Thr	Ile Leu Ser Ala 2565	Arg Asp Glu Pro 2563 His O	Arg Asp Glu 2562 Pro S5 Val	Ser Tyr 2560 Glu 20 His Lys	Leu 2559 Leu 5 Leu Phe Val	Gly O Ala Glu Glu Glu 2565 Lys	Asp Met Leu 2564 Glu 55 Ala	Lys Gly 2562 Ser 0 Thr	Arg 2561 Phe 25 Ser Arg Ala	Asp 2559 Thr .0 Ser Leu Lys Ser	2558 Glu 5 Glu Ala Arg Asn 2566 Thr	Glu Glu Ser Tyr 2564 Phe Ser	Leu Glu Pro 2563 Ser I5 Arg	Arg 2561 Pro 80 Ser Tyr	25600 Leu .5 Ser Pro
E> E> E>	4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609	2558 Pro Arg Arg Gln Thr 2566	Ile Leu Ser Ala 2569 Tyr	Arg Asp Glu Pro 2563 His His	Arg Asp Glu 2562 Pro S5 Val	Ser Tyr 2560 Glu 0 His Lys Pro	Leu 2559 Leu 5 Leu Phe Val Thr 2567	Gly O Ala Glu Glu Glu 2565 Lys	Asp Met Leu 2564 Glu 5	Lys Gly 2562 Ser O Thr	Arg 2561 Phe 25 Ser Arg Ala	Asp 2559 Thr .0 Ser Leu Lys Ser 2567	2558 Glu 5 Glu Ala Arg Asn 2566 Thr	Glu Glu Ser Tyr 2564 Phe Ser	Leu Glu Pro 2563 Ser I5 Arg	Arg 2561 Pro 30 Ser Tyr	25600 Leu 5 Ser Pro Ser
E> E> E>	4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610	Pro Arg Arg Gln Thr 2566	Ile Leu Ser Ala 2569 Tyr Arg	Arg Asp Glu Pro 2563 His O His	Arg Asp Glu 2562 Pro S5 Val Ile Arg	Ser Tyr 2560 Glu 0 His Lys Pro	Leu 2559 Leu 5 Leu Phe Val Thr 2567 Ala	Gly O Ala Glu Glu 2565 Lys O Gln	Asp Met Leu Leu 2564 Glu 5 Ala Ala	Ile Lys Gly 2562 Ser O Thr Glu Ala	Ser Arg 2561 Phe 25 Ser Arg Ala Tyr	Asp 2559 Thr 0 Ser Leu Lys Ser 2567 Arg	2558 Glu 5 Glu Ala Arg Asn 2566 Thr Gln	Glu Glu Ser Tyr 2564 Phe Ser Pro	Leu Glu Pro 2563 Ser 15 Arg Tyr Lys	Arg 2561 Pro 30 Ser Tyr Ala Gln	25600 Leu .5 Ser Pro Ser Glu 25680
E> E> E>	4599 4600 4601 4602 4603 4604 4605 4606 4607 4608 4609 4610	Pro Arg Arg Gln Thr 2566	Ile Leu Ser Ala 2569 Tyr 55 Arg	Arg Asp Glu Pro 2563 His Glu	Arg Asp Glu 2562 Pro S5 Val Ile Arg	Ser Tyr 2560 Glu 0 His Pro His 2568	Leu 2559 Leu 5 Leu Phe Val Thr 2567 Ala	Gly O Ala Glu Glu 2565 Lys O Gln	Asp Met Leu Leu 2564 Glu 55 Ala Ala	Lys Gly 2562 Ser 0 Thr Glu Ala	Arg 2561 Phe 25 Ser Arg Ala Tyr 2569	Asp 2559 Thr .0 Ser Leu Lys Ser 2567 Arg	2558 Glu 5 Glu Ala Arg Asn 2566 Thr Gln	Glu Glu Ser Tyr 2564 Phe Ser Pro	Leu Glu Pro 2563 Ser I5 Arg Tyr Lys	Arg 2561 Pro 30 Ser Tyr Ala Gln 2569	25600 Leu .5 Ser Pro Ser Glu 25680 Arg

E>	4613				2570	00		25705 25710							10		
	4614	Thr	Thr	Thr	Gln	His	Leu	Ser	Glu	Tyr	Lys	Ser	Glu	Leu	Asp	Phe	Met
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	4618	Thr	Glu	Ile	Thr	Glu	Ile	Glu	Glu	Glu	Tyr	Glu	Ile	Ser	Lys	His	Ala
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	4620	Gln	Arg	Glu	Ser	Ser	Ser	Ser	Ala	Ser	Arg	Leu	Leu	Arg	Arg	Arg	Arg
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	4622	Ser	Leu	Ser	Pro	Thr	Tyr	Ile	Glu	Leu	Met	Arg	Pro	Val	Ser	Glu	Leu
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	4624	Ile	Arg	Ser	Arg	Pro	Gln	Pro	Ala	Glu	Glu	Tyr	Glu	Asp	Asp	Thr	Glu
E>	4625			2579	95				2580	00				2580	)5		
	4626	-	_						_		_		_		Pro	Ser	Pro
E>	4627		258:	10				2581	15				2582	20			
	4628					_				_						_	
E>	4629	2582	25				2583	30				2583	35				25840
	4630	_				_	_				_				_		
E>					•												
	4632	_					_	_							Pro	Phe	Thr
E>															2587		
	4634		_				_				_		_		His	Arg	Val
E>																	
	4636		-	_				_							Ser	Lys	Pro
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E>								10					L5				25920
	4640	Ser	Lys	Ile	His	_			Thr	Ser	_		Leu	Thr	Leu		
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	4642	Leu	Asp	Cys			-	-	Ser	-		Tyr	Arg	Ala		_	Thr
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E>		_		70		_			75			~ -	2598				_
_	4648	-				Pro				Arg	Thr			_	Ala	Val	
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	4650	ser	hue	гЛs	гуѕ	Thr	ser	GTU	мет	GIU	Ата	ser	ser	ser	vaı	Arg	GIU

## VERIFICATION SUMMARY PATENT APPLICATION: US/09/759,508A DATE: 05/30/2001 TIME: 11:49:03

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L:2731 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2733 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2735 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2737 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2739 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2741 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2743 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
L:2745 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
```